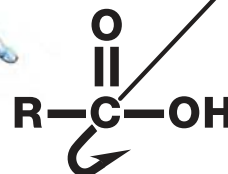


NU-CHEK PREP, INC.

*The Home of
Fine Lipid Organics*



1970 - 2025

55

YEARS OF
EXCELLENCE

P.O. Box 295
109 West Main St.,
Elysian, MN 56028 U.S.A.
Phone: (507) 267-4689 or (507) 267-4582
Fax: (507) 267-4790
E-Mail: info@nuchekprep.com
On the Web: nu-chekprep.com



2025-2028





PREFACE

Nu-Chek has been preparing your highly purified lipid compounds both as individual standards and as model mixtures for the past 55 years.

But that's not the entire story. We go back to times when criteria of purity was based on such things as Iodine value and melting point.

Pure Methyl Oleate was a compound that contained enough inherent Stearate and Linoleate to give the Oleate its theoretical Iodine value.

Palmitic Acid was often designated as pure when it contained enough Myristate and Stearate to give a correct melting point.

Before the advent of GLC and TLC, triglycerides were synthesized by the interesterification of what was assumed to be pure methyl ester. The reaction end product was made available to researchers as highly purified triglyceride. Of course, chromatography confirmed later that the best of these reactions never went to completion beyond 75%-80%.

Indeed, one can go on indefinitely over incorrect data which has been listed in the literature. Physical data on lipids even when listed in the handbooks is many times not valid.

Within more recent years, scientific research in the lipid field has made some fantastic progress. Chromatography along with other sophisticated instrumentation has eliminated analysis guess work.

Only those isolated fractions which contain no detectable impurities even with large overloads (as analyzed both by GLC and TLC) are able to pass our rigid purity requirements, and in turn are made available to the scientific community for research purposes.

At Nu-Chek our pride is in our product.

GENERAL PRODUCT INFORMATION

Purity Guarantee

Nu-Chek generally prepares chromatographically pure compounds listed in our catalog as having a purity greater than 99%+. Varying degrees of purity (i.e. relatively pure greater than 90%) are so listed. Compounds of lesser degree purity can also be obtained by special request.

All products made available under our label are guaranteed to meet the minimum specifications designated at the time of sale. Age or condition of storage may alter chemical properties for which change we cannot be held liable.

If at the time of sale any of our products are found to be inferior or of a degree purity less than specified, Nu-Chek will supply you (free of charge) an adequate replacement, or at our option, refund your purchase price. All claims must be made within 60 days of invoice date. (Antioxidants tend to alter normal compound functions therefore are never added.)

**INCORRECT ORDERS ON THE CUSTOMERS PART WILL RESULT
IN A RE-STOCK FEE OF 25% OF THE RETURNED ITEMS.**

Warning of a Legal Nature

The compounds listed in our catalog are offered strictly for scientific research purposes only.

THEY ARE NOT INTENDED FOR HUMAN CONSUMPTION OR TO BE USED IN:

- 1. FOOD OR FOOD ADDITIVES**
- 2. MEDICINAL OR DRUG RELATED USES.**

We assume no responsibility with respect to their use other than research.

While physical data and information included in our catalog are precise and accurate to the best of our knowledge, a total guarantee cannot always be substantiated; and therefore, final acceptance of such data must be voluntary.

**OUR UNSATURATED COMPOUNDS ARE INSERTED
BY VOLUME RATHER THAN WEIGHT. EXACT WEIGHTS
MAY BE OBTAINED IF DESIRED WITH A
\$4.00 SERVICE CHARGE PER VIAL.**

**ALL OF OUR UNSATURATED COMPOUNDS ARE FLUSHED SEVERAL TIMES WITH
NITROGEN AND SEALED UNDER HIGH VACUUM THUS ELIMINATING THE NEED TO
SHIP ANY PRODUCT UNDER DRY ICE. OUR UNIQUE SYSTEM OF SEALING HAS BEEN
TESTED FOR OVER 55 YEARS AND HAS PROVEN VERY EFFECTIVE.**

NU-CHEK PREP, INC. **TERMS & CONDITIONS OF SALE**

PRICES & TERMS

All prices are shown in U.S. Dollars.

Payment terms are net 30 days.

Visa, Mastercard, American Express and Discover are accepted.

Every effort will be made to maintain pricing for the current catalog period;
however, prices are subject to change without notice.

All claims for replacement or credit must be made within 60 days of the invoice date.

SHIPPING

We ship using Federal Express.

We prepay and add the charge to the invoice.

- **FedEx Collect -**

You may use your own account number. Please provide this number when ordering.

Please inspect your package immediately upon receipt
and notify us promptly of any damage or discrepancies.

FCA Shipping Point

- **International:**

Duty and Tax charges are the responsibility of the customer along with any other customs charges that may arise.

Failure to claim and clear packages will result in additional fees.

The customer is responsible for obtaining any needed licenses to export and import.

SAFETY DATA SHEETS / **CERTIFICATES OF ANALYSIS (SDS/COA)**

We supply an SDS and COA for every item on your order.

These are placed inside every package.

**SDS's and COA's are also available to customers for
previously purchased products upon request.**

ORDER INFORMATION

NU-CHEK-PREP has no minimum requirement. All orders are accepted and the same meticulous care is given to an order of a few milligrams as to one of kilogram quantities.

When ordering please use the name of compound and product code number. The prices listed are currently in effect; however, they are subject to change without notice.

**Discounts are always available
for larger sizes than those listed in our catalog.**

AVOIDING DUPLICATE ORDERS

Submit orders only once.

**When inquiring about the status of your order do not include
the actual order.**

Do not send a confirmation copy of your order.

BUSINESS HOURS

8:00 A.M. - 4:30 P.M. CENTRAL STANDARD TIME

TO PLACE YOUR ORDER

NU-CHEK-PREP, INC.

P.O. BOX 295

ELYSIAN, MINNESOTA 56028

PHONE: (507) 267-4689 or 267-4582

FAX: (507) 267-4790 • E-MAIL: info@nuchekprep.com

SEE PAGE 83 for ORDER FORM AND REQUIRED INFORMATION.

DISTRIBUTORS:

JAPANESE

Funakoshi Co. Ltd.
9-7 Hongo 2-Chome, Bunkyo-ku
Tokyo 113-0033, Japan
e-mail: reagent@funakoshi.co.jp
Tel: 81-3-5684-1620
Fax: 81-3-5684-1775

EUROPEAN

LARODAN AB
Karolinska Institute Science Park
Scheeles väg 5, SE-171 65 SOLNA, Sweden
email: info@larodan.se
www.larodan.se
Ph: +46 40 164155 or 46 20 152200

CHINESE

MEITECH USA
Attn: Sun Jun
Shanghai NuchTech Bio Scientific LLC
Address: 125 Jiang Su North Road, Rm 402, BLDG #A, Shanghai, China
Post code: 200042
Tel: 021-60708482
Cell: 13524088947

NU-CHEK-POLICY

LIPID RESEARCHERS THINK NU-CHEK

If you are contemplating the purchase of high purity lipids and have several options at your disposal, we think you should give our organization consideration.

At NU-CHEK the preparation of lipid organics is not a sideline!!! It is our total existence! Through long experience and technical know-how we offer our line of chemical compounds in a purity seldom equaled and never excelled with prices that can keep your research program within a realistic budget.

Pick up any of our competitors' catalogs and the message becomes obviously clear. After leafing through page after page of column packing, TLC and GLC accessories, reagents, syringe needles and tubing - somewhere in the catalog (usually as an afterthought) is a buried section called "Lipids" and indeed often at prices that tend to make your research program prohibitive.

Our entire catalog listing is categorized in a logical manner so as to give you maximum assistance in locating your specific interest.

As this catalog goes to press Nu-Chek-Prep., Inc. will be starting their 55th year in a continuing policy of making the finest lipid-organics available at the lowest possible prices to the world wide scientific community. Our objective is simply to serve the lipid organic field to the best of our abilities.

If we can be of service to you at any time please contact us.

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FATTY ACIDS AND ESTER HOMOLOGS

Even numbered chains of saturated and unsaturated fatty acids occur predominately in many of nature's animal and vegetable fats and oils.

Until recently it was assumed that the occurrence of straight chain odd number fatty acids in natural fat were rare. Recent analytical instrumentation has proven this to be a fallacy, since the presence of odd number carbon fatty acids have been shown to occur as minor constituents in practically every natural fat. What role they actually play in nature's scheme may be eventually established by continued research.

Nu-Chek high purity lipids are isolated in our own laboratory from the best commercial vegetable oil source available. Fatty acid chains of odd numbered compounds are generally synthesized by chain extension. Saturated chains and the unsaturated series (other than polyunsaturated fats) are always purified by a final distillation on a hundred theoretical plate high vacuum fractionating column. This is done to remove color along with other extraneous trace impurities. Only those fractions on which impurities are unable to be detected even with large overloads both by GLC and TLC are made available for product sale.

The isolation of high purity unsaturated compounds are always protected under an atmosphere of inert gas (i.e. N₂). The final product, with the exception of high melting saturated compounds, is always flushed with nitrogen, sealed in Pyrex glass or Wheaton pre-scored ampules under vacuum, and stored under cold condition of 0°C or lower until ready for shipment.

Whenever possible, our pure fatty acids and esters are isolated from their natural source by various physical techniques holding the conversion of unwanted isomers to a negligible minimum.

SATURATED SERIES (Straight Chain) Acids and Esters*

Purity greater than 99%+
unless otherwise listed

Prices per quantity

C No. CHAIN	FATTY ACID	PHYSICAL DATA**	COMPOUND DERIVATIVE	CATALOG NUMBER	100MG	500MG	1GM	5GM	10GM
C3:0	TRIAINOIC (PROPIONIC)	mw 74.08 bp 141° mp -22.0°	ACID METHYL ETHYL	N-3-A N-3-M N-3-E	12.00	13.00	14.00	40.00	50.00
C4:0	TETRAINOIC (BUTYRIC)	mw 88.11 bp 162° mp -7.9°	ACID METHYL ETHYL	N-4-A N-4-M N-4-E	12.00	13.00	14.00	40.00	50.00
C5:0	PENTANOIC (VALERIC)	mw 102.4 bp 113° mp -34.5°	ACID METHYL ETHYL	N-5-A N-5-M N-5-E	12.00	13.00	14.00	40.00	50.00
C6:0	HEXANOIC (CAPROIC)	mw 116.16 bp 205° mp -3.4°	ACID METHYL ETHYL	N-6-A N-6-M N-6-E	12.00	13.00	14.00	40.00	50.00
C7:0	HEPTANOIC (ENANTHIC)	mw 130.19 bp 223° mp -7.5°	ACID METHYL ETHYL	N-7-A N-7-M N-7-E	13.00	20.00	27.00	113.00	190.00
C8:0	OCTANOIC (CAPRYLIC)	mw 144.21 bp 240° mp 16.5°	ACID METHYL ETHYL	N-8-A N-8-M N-8-E	12.00	13.00	14.00	40.00	50.00
C9:0	NONANOIC (PELARGONIC)	mw 158.24 bp 255° mp 12.5°	ACID METHYL ETHYL	N-9-A N-9-M N-9-E	13.00	20.00	27.00	113.00	190.00
C10:0	DECANOIC (CAPRIC)	mw 172.27 bp 270° mp 31.6°	ACID METHYL ETHYL	N-10-A N-10-M N-10-E	12.00	13.00	14.00	40.00	50.00

*Higher ester homologs (Propyl-Butyl-etc.) can be made available by special request. Substantial discounts are available on quantities larger than those listed in our catalog.

**Listed only for fatty acid.

SATURATED SERIES (Con't)

Acids and Esters*

Purity greater than 99%+
unless otherwise listed

Prices per quantity

C No. CHAIN	FATTY ACID	PHYSICAL DATA**	COMPOUND DERIVATIVE	CATALOG NUMBER	100MG	500MG	1GM	5GM	10GM
C11:0	UNDECANOIC (HENDECANOIC)	mw 186.30 bp ₁₅ 164° mp 29.3°	ACID METHYL ETHYL	N-11-A N-11-M N-11-E	13.00	20.00	27.00	113.00	190.00
C12:0	DODECANOIC (LAURIC)	mw 200.35 bp ₁ 131° mp 44.2°	ACID METHYL ETHYL	N-12-A N-12-M N-12-E	12.00	13.00	14.00	40.00	50.00
C13:0	TRIDECANOIC	mw 214.35 bp ₁ 140° mp 41.5°	ACID METHYL ETHYL	N-13-A N-13-M N-13-E	27.00	38.00	55.00	190.00	325.00
C14:0	TETRADECANOIC (MYRISTIC)	mw 228.38 bp ₁ 149° mp 54.4°	ACID METHYL ETHYL	N-14-A N-14-M N-14-E	12.00	13.00	14.00	40.00	50.00
C15:0	PENTADECANOIC	mw 242.41 bp ₁ 158° mp 52.3°	ACID METHYL ETHYL	N-15-A N-15-M N-15-E	27.00	38.00	55.00	190.00	325.00
C16:0	HEXADECANOIC (PALMITIC)	mw 256.43 bp ₁ 170° mp 61.3°	ACID METHYL ETHYL	N-16-A N-16-M N-16-E	12.00	13.00	14.00	40.00	50.00
C17:0	HEPTADECANOIC (MARGARIC)	mw 270.48 bp ₁₀₀ 232° mp 61.3°	ACID METHYL ETHYL	N-17-A N-17-M N-17-E	27.00	38.00	55.00	190.00	325.00
C18:0	OCTADECANOIC (STEARIC)	mw 284.48 bp ₁₅ 230° mp 69.6°	ACID METHYL ETHYL	N-18-A N-18-M N-18-E	12.00	13.00	14.00	40.00	50.00
C18:0	12-HYDROXY STEARIC	mw 300.48	ACID METHYL ETHYL	N-18HY-A N-18HY-M N-18HY-E	22.00	40.00	50.00	165.00	290.00
C19:0	NONADECANOIC	mw 298.51 bp ₁₀ 203° mp 68.65°	ACID METHYL ETHYL	N-19-A N-19-M N-19-E	35.00	50.00	70.00	190.00	340.00
C20:0	EICOSANOIC (ARACHIDIC)	mw 312.54 bp ₁ 203° mp 75.35°	ACID METHYL ETHYL	N-20-A N-20-M N-20-E	25.00	35.00	45.00	175.00	200.00
C21:0	HENEICOSANOIC	mw 326.57 bp ₁ 205° mp 74.3°	ACID METHYL ETHYL	N-21-A N-21-M N-21-E	50.00	75.00	100.00	435.00	800.00
C22:0	DOCOSANOIC (BEHENIC)	mw 340.59 bp ₁₀ 306° mp 79.95°	ACID METHYL ETHYL	N-22-A N-22-M N-22-E	25.00	35.00	45.00	175.00	200.00
C23:0	TRICOSANOIC	mw 354.61 mp 79.1°	ACID METHYL ETHYL	N-23-A N-23-M N-23-E	50.00	75.00	100.00	435.00	800.00
C24:0	TETRACOSANOIC (LIGNOCERIC)	mw 368.64 mp 84.15°	ACID METHYL ETHYL	N-24-A N-24-M N-24-E	55.00	75.00	110.00	445.00	825.00

*Higher ester homologs (Propyl-Butyl-etc.) can be made available by special request. Substantial discounts are available on quantities larger than those listed in our catalog.

****Listed only for fatty acid.**

UNSATURATED SERIES

Straight chain fatty acids, mono basic, aliphatic, terminating in a single carboxyl group and of reduced hydrogen content than their saturated counterparts, constitute the ethylenic family of unsaturated fatty acids. They are of considerable importance since linkage with other chemical radicals is readily accomplished at the double bond positions. Multiple unsaturation is found in almost all natural occurring vegetable and animal fats. Research in recent years has shown them to be of great significance.

Double bonds are susceptible to oxidation so that stability is a factor to be reckoned with (especially polyunsaturated compounds) when researching unsaturated fatty acids or their corresponding esters.

Highly purified unsaturated compounds prepared in our laboratory are always flushed several times with nitrogen, sealed in glass under vacuum and stored under cold conditions until ready for shipment.

Nu-Chek suggests that when your shipment is received, that it should be stored under cold conditions; that it be used as soon as possible and that the hermetically sealed ampules are not opened until ready to use.

UNSATURATED FATTY ACIDS (STRAIGHT CHAIN ALIPHATIC) Acids and Esters*

Purity greater than 99%+
unless otherwise listed

Prices per quantity

C No. CHAIN	FATTY ACID	PHYSICAL DATA**	COMPOUND DERIVATIVE	TYPE	CATALOG NUMBER	100MG	500MG	1GM	5GM	10GM
C11:1	10-UNDECENOIC (HENDECENOIC)	Δ 10 cis mw 184.30 bp ₁₅ 165° mp 24.5°	ACID METHYL ETHYL	N1 OMEGA 1	U-31-A U-31-M U-31-E	30.00	40.00	45.00	150.00	230.00
C12:1	11-DODECENOIC	Δ 11 cis mw 198.35	ACID METHYL ETHYL	N1 OMEGA 1	U-34-A U-34-M U-34-E	35.00	50.00	70.00	310.00	590.00
C13:1	12-TRIDECENOIC	Δ 12 cis mw 212.35	ACID METHYL ETHYL	N1 OMEGA 1	U-35-A U-35-M U-35-E	35.00	50.00	70.00	310.00	590.00
C14:1	9-TETRADECENOIC (MYRISTOLEIC)	Δ 9 cis mw 226.38	ACID METHYL ETHYL	N5 OMEGA 5	U-36-A U-36-M U-36-E	100.00	210.00	295.00	1250.00	2325.00
C14:1T	9-TRANS TETRADECENOIC (MYRISTELAIDIC)	Δ 9 trans mw 226.38	ACID METHYL ETHYL	N5 OMEGA 5	U-37-A U-37-M U-37-E	175.00	305.00	475.00		
C15:1	10-PENTADECENOIC	Δ 10 cis mw 240.40	ACID METHYL ETHYL	N5 OMEGA 5	U-38-A U-38-M U-38-E	185.00	315.00	430.00	2000.00	3575.00
C15:1	14-PENTADECENOIC	Δ 14 cis mw 240.40	ACID METHYL ETHYL	N1 OMEGA 1	U-38-AX U-38-MX U-38-EX	110.00	150.00	260.00		
C15:1T	10-TRANS-PENTADECENOIC	Δ 10 trans mw 240.40	ACID METHYL ETHYL	N5 OMEGA 5	U-39-A U-39-M U-39-E	260.00	925.00			
C16:1	9-HEXADECENOIC (PALMITOLEIC)	Δ 9 cis mw 254.43 mp 0.5°	ACID METHYL ETHYL	N7 OMEGA 7	U-40-A U-40-M U-40-E	40.00	50.00	65.00	275.00	425.00
C16:1T	9-TRANS-HEXADECENOIC (PALMITELAIDIC)	Δ 9 trans mw 254.43	ACID METHYL ETHYL	N7 OMEGA 7	U-41-A U-41-M U-41-E	45.00	60.00	75.00	325.00	600.00
C17:1	10-HEPTADECENOIC	Δ 10 cis mw 268.48	ACID METHYL ETHYL	N7 OMEGA 7	U-42-A U-42-M U-42-E	55.00	75.00	95.00	425.00	775.00

*Bond position is shown by Δ under physical data.

**M.W. for fatty acid only.

UNSATURATED FATTY ACIDS (Con't)

Acids and Esters

Purity greater than 99%+
unless otherwise listed

Prices per quantity

C No. CHAIN	FATTY ACID	PHYSICAL DATA*	COMPOUND DERIVATIVE	TYPE	CATALOG NUMBER	100MG	500MG	1GM	5GM	10GM
C17:1T	10-TRANS-HEPTADECENOIC	Δ 10 trans mw 268.48	ACID METHYL ETHYL	N7 OMEGA 7	U-43-A U-43-M U-43-E	90.00	250.00	375.00	1575.00	2900.00
C18:1	6-OCTADECENOIC (PETROSELINIC)	Δ 6 cis mw 282.48 mp 30°	ACID METHYL ETHYL	N12 OMEGA 12	U-44-A U-44-M U-44-E	40.00	50.00	60.00	250.00	445.00
C18:1T	6-TRANS-OCTADECENOIC (PETROSELAIDIC)	Δ 6 trans mw 282.48 mp 53°	ACID METHYL ETHYL	N12 OMEGA 12	U-45-A U-45-M U-45-E	60.00	70.00	85.00	390.00	690.00
C18:1	9-OCTADECENOIC (OLEIC)	Δ 9 cis mw 282.48 mp 16.2°	ACID METHYL ETHYL	N9 OMEGA 9	U-46-A U-46-M U-46-E	14.00	18.00	22.00	60.00	85.00
C18:1T	9-TRANS-OCTADECENOIC (ELAIDIC)	Δ 9 trans mw 282.48 mp 43.7°	ACID METHYL ETHYL	N9 OMEGA 9	U-47-A U-47-M U-47-E	30.00	40.00	45.00	120.00	165.00
C18:1	11-OCTADECENOIC (VACCENIC)	Δ 11 cis mw 282.48 mp 12°	ACID METHYL ETHYL	N7 OMEGA 7	U-48-A U-48-M U-48-E	60.00	85.00	110.00	440.00	800.00
C18:1T	11-TRANS-OCTADECENOIC (TRANSVACCENIC)	Δ 11 trans mw 282.48 mp 39°	ACID METHYL ETHYL	N7 OMEGA 7	U-49-A U-49-M U-49-E	85.00	130.00	180.00	680.00	1225.00
C18:1	9 cis-12 HYDROXY- OCTADECENOIC (RICINOLEIC)	Δ 9 cis 12 (OH) mw 298.46	ACID METHYL ETHYL		U-50-A U-50-M U-50-E	35.00	45.00	55.00	220.00	375.00
C18:1T	9-TRANS-12 HYDROXY- OCTADECENOIC (RICINELAIDIC)	Δ 9 trans 12 hydroxy mw 298.46	ACID METHYL ETHYL		U-51-A U-51-M U-51-E	50.00	75.00	85.00	365.00	650.00
C19:1	7-NONADECENOIC	Δ 7 cis mw 296.48	ACID METHYL ETHYL	N12 OMEGA 12	U-52-A U-52-M U-52-E	70.00	200.00	240.00	875.00	1675.00
C19:1T	7-TRANS-NONADECENOIC	Δ 7 trans mw 296.48	ACID METHYL ETHYL	N12 OMEGA 12	U-53-A U-53-M U-53-E	140.00	300.00	550.00		
C19:1	10-NONADECENOIC	Δ 10 cis mw 296.48	ACID METHYL ETHYL	N9 OMEGA 9	U-54-A U-54-M U-54-E	60.00	75.00	95.00	415.00	740.00
C19:1T	10-TRANS-NONADECENOIC	Δ 10 trans mw 296.48	ACID METHYL ETHYL	N9 OMEGA 9	U-55-A U-55-M U-55-E	115.00	360.00	525.00		
C19:2	10-13 NONADECADIENOIC	Δ 10 cis 13 cis mw 294.48	ACID METHYL ETHYL	N6 OMEGA 6	U-58-A U-58-M U-58-E	95.00	220.00	325.00	1400.00	2600.00
C18:2	9-12 OCTADECADIENOIC (LINOLEIC)	Δ 9 cis 12 cis mw 280.48 mp -6.5°	ACID METHYL ETHYL	N6 OMEGA 6	U-59-A U-59-M U-59-E	14.00	18.00	22.00	60.00	85.00

UNSATURATED FATTY ACIDS (Con't)

Acids and Esters

Purity greater than 99%+
unless otherwise listed

Prices per quantity

C No. CHAIN	FATTY ACID	PHYSICAL DATA*	COMPOUND DERIVATIVE	TYPE	CATALOG NUMBER	100MG	500MG	1GM	5GM	10GM	
C18:2TT	9-TRANS 12-TRANS OCTADECADIENOIC (LINOELAIDIC)	Δ 9 trans 12 trans mw 280.48 mp 29°	ACID METHYL ETHYL	N6 OMEGA 6	U-60-A U-60-M U-60-E	40.00	50.00	60.00	240.00	395.00	
C18:2	OCTADECADIENOIC (CONJUGATED) 99%	Δ 9, 11 Δ 10, 12	ACID METHYL		UC-59-A UC-59-M	35.00	45.00	60.00	260.00	445.00	
C18:2	OCTADECADIENOIC (CONJUGATED) 95%	Δ 9, 11 Δ 10, 12	ACID METHYL		UC-59-AX UC-59-MX	15.00	25.00	30.00	105.00	170.00	
C18:2	OCTADECADIENOIC (CONJUGATED) APPROXIMATELY 90%	Δ 10 trans Δ 12 cis mw 280.5	ACID METHYL		UC-61-A UC-61-M	45.00 45.00	65.00 65.00	100.00 100.00	425.00 425.00	850.00 850.00	
C18:3	9-12-15 OCTADECATRIENOIC (ALPHA LINOLENIC)	Δ 9 cis 12 cis 15 cis mw 278.48 mp -12.8°	ACID METHYL ETHYL	N3 OMEGA 3	U-62-A U-62-M U-62-E	35.00	45.00	55.00	240.00	395.00	
C18:3	6-9-12 OCTADECATRIENOIC (GAMMA LINOLENIC)	Δ 6 cis 9 cis 12 cis mw 278.48	ACID METHYL ETHYL	N6 OMEGA 6	U-63-A U-63-M U-63-E	50.00	65.00	85.00	395.00	650.00	
C20:1T	11-TRANS-EICOSENOIC	Δ 11 trans mw 310.54 mp 53°	ACID METHYL ETHYL	N9 OMEGA 9	U-64-A U-64-M U-64-E	45.00	55.00	65.00	295.00	475.00	
C20:1	8-EICOSENOIC	Δ 8 cis mw 310.54	ACID METHYL ETHYL	N12 OMEGA 12	U-65-A U-65-M U-65-E	65.00	210.00	320.00	1300.00		
C20:1	11-EICOSENOIC GONDOIC	Δ 11 cis mw 310.54 mp 22°	ACID METHYL ETHYL	N9 OMEGA 9	U-66-A U-66-M U-66-E	35.00	45.00	55.00	240.00	400.00	
C20:1	5-EICOSENOIC	Δ 5 cis mw 310.54	ACID METHYL ETHYL	N15 OMEGA 15	UX-67-A UX-67-M UX-67-E	80.00	195.00	295.00	1300.00		
C20:2	11-14 EICOSADIENOIC	Δ 11 cis 14 cis mw 308.53	ACID METHYL ETHYL	N6 OMEGA 6	U-68-A U-68-M U-68-E	55.00	70.00	95.00	395.00	725.00	
C20:3	8-11-14 EICOSATRIENOIC (HOMOGAMMA LINOLENIC)	Δ 8 cis 11 cis 14 cis mw 306.53	ACID METHYL ETHYL	N6 OMEGA 6	U-69-A U-69-M U-69-E	10MG 40.00	25MG 50.00	50MG 60.00	100MG 80.00	500 MG 295.00	1GM 400.00
C20:3	11-14-17 EICOSATRIENOIC	Δ 11 cis 14 cis 17 cis mw 306.53	ACID METHYL ETHYL	N3 OMEGA 3	U-70-A U-70-M U-70-E	60.00	70.00	95.00	420.00	800.00	

UNSATURATED FATTY ACIDS (Con't)

Acids and Esters

Purity greater than 99%+
unless otherwise listed

Prices per quantity

C No. CHAIN	FATTY ACID	PHYSICAL DATA*	COMPOUND DERIVATIVE	TYPE	CATALOG NUMBER	100MG	500MG	1GM	5GM	10GM
C20:4	ARACHIDONIC 90%+	all cis mw 304.52	ACID METHYL ETHYL	N6 OMEGA 6	U-72-A U-72-M U-72-E	55.00	70.00	85.00	350.00	650.00
C20:4	5-8-11-14 EICOSATETRAENOIC (ARACHIDONIC 99%+)	Δ 5 cis, 8 cis 11 cis, 14 cis mw 304.52	ACID METHYL ETHYL	N6 OMEGA 6	U-71-A U-71-M U-71-E	10MG 30.00	25MG 50.00	50MG 60.00	100MG 65.00	500MG 90.00 1GM 120.00
C20:5	5-8-11-14-17 EICOSAPENTAENOIC (EPA)	all cis mw 302.52	ACID METHYL ETHYL	N3 OMEGA 3	U-99-A U-99-M U-99-E	50.00	65.00	75.00	90.00	145.00 205.00
C22:5	7-10-13-16-19 DOCOSAPENTAENOIC (DPA) N3	all cis mw 330.57	ACID METHYL ETHYL	N3 OMEGA 3	U-101-A U-101-M U-101-E	65.00	80.00	100.00	140.00	260.00 350.00
C22:5	4-7-10-13-16 DOCOSAPENTAENOIC N6	mw 330.57	ACID METHYL ETHYL	N6 OMEGA 6	U-102-A U-102-M U-102-E	80.00	100.00	140.00	240.00	295.00 350.00
C22:5	4-7-10-13-16 DOCOSAPENTAENOIC N6 95%+	mw 330.57	ACID METHYL ETHYL	N6 OMEGA 6	U-102-AX U-102-MX U-102-EX	60.00	75.00	90.00	145.00	240.00 295.00
C22:6	4-7-10-13-16-19 DOCOSAHEXAENOIC (DHA)	all cis mw 328.57	ACID METHYL ETHYL	N3 OMEGA 3	U-84-A U-84-M U-84-E	30.00	50.00	60.00	80.00	100.00 120.00
C22:1	13-DOCOSENOIC (ERUCIC)	Δ 13 cis mp 33° mw 338.59	ACID METHYL ETHYL	N9 OMEGA 9	U-79-A U-79-M U-79-E	30.00	40.00	50.00	150.00	260.00
C22:1T	13-TRANSDOCOSENOIC (BRASSIDIC)	Δ 13 trans mp 60° mw 338.59	ACID METHYL ETHYL	N9 OMEGA 9	U-80-A U-80-M U-80-E	40.00	55.00	75.00	300.00	550.00
C22:2	13-16 DOCOSADIENOIC	Δ 13 cis 16 cis mw 336.59	ACID METHYL ETHYL	N6 OMEGA 6	U-81-A U-81-M U-81-E	10MG 60.00	25MG 75.00	50MG 85.00	100MG 100.00	500MG 355.00 1GM 450.00
C22:3	13-16-19 DOCOSATRIENOIC	Δ 13 cis 16 cis 19 cis mw 334.58	ACID METHYL ETHYL	N3 OMEGA 3	U-82-A U-82-M U-82-E	60.00	75.00	85.00	100.00	355.00 450.00
C22:4	7-10-13-16 DOCOSATETRAENOIC (ADRENIC)	Δ 7 cis, 10 cis, 13 cis, 16 cis mw 332.57	ACID METHYL ETHYL	N6 OMEGA 6	U-83-A U-83-M U-83-E	60.00	75.00	85.00	100.00	355.00 450.00
C21:1	12-HENEICOSENOIC	Δ 12 cis mw 324.57	ACID METHYL ETHYL	N9 OMEGA 9	U-85-A U-85-M U-85-E	70.00	105.00	175.00		
C21:2	12-15 HENEICOSADIENOIC	Δ 12-15 mw 322.57	ACID METHYL ETHYL	N6 OMEGA 6	U-86-A U-86-M U-86-E	145.00	245.00	350.00		
C23:1	14-TRICOSENOIC	Δ 14 cis mw 352.60	ACID METHYL ETHYL	N9 OMEGA 9	U-87-A U-87-M U-87-E	80.00	110.00	195.00		
C24:1	15-TETRACOSENOIC (NERVONIC)	Δ 15 cis mw 366.63	ACID METHYL ETHYL	N9 OMEGA 9	U-88-A U-88-M U-88-E	45.00	65.00	85.00	320.00	575.00

(Exact weights may be obtained if desired with an additional \$4.00 service charge per vial. State exact weight when ordering.)

GLYCERIDES

The distribution of random fatty acids in naturally occurring fats and oils in the form of triglycerides dates back to antiquity.

Indeed, the use of soap-cosmetics and oil lubricants dates back thousands of years. While we at Nu-Chek do not profess to go back quite that far, we would like to say that we have been synthesizing pure glyceride standards for the scientific community for over 55 years.

The general procedure for all our triglyceride preparations is well exemplified in Nu-Chek's Triolein. Our starting material is chromatographically pure Methyl Oleate (isolated from the best vegetable oils available) which is then interesterified for the production of crude Triolein. To assure geometric stability of cis double bonds, the material is further purified by such physical techniques as low temperature crystallization and column chromatography. The final purity is followed both by gas liquid and thin layer chromatography.

Other triglycerides are prepared in a similar manner commencing with the particular oil which contains the best concentrates of the specific ester required.

GLYCERIDES - SATURATED Tri's - Di's - Mono's All Greater Than 99%

CHAIN	GLYCERIDE	CATALOG #	10MG	25MG	50MG	100MG	500MG	1GM
C8:0	TRIOCTANOIN (CAPRYLIN)	T-110	-	-	-	35.00	45.00	60.00
	DICAPRYLIN	D-111	-	-	-	35.00	45.00	60.00
	1-3 ISOMER	D-112	20.00	30.00	40.00	55.00	65.00	85.00
	MONOCAPRYLIN	M-114	-	-	-	35.00	45.00	60.00
	M.W. 470.69							
C9:0	TRINONANOIN (PELARGONIN)	T-115	-	-	-	40.00	50.00	60.00
	DINONANOIN	D-116	-	-	-	40.00	50.00	70.00
	1-3 ISOMER	D-117	30.00	45.00	55.00	70.00	100.00	210.00
	MONONONANOIN	M-119	-	-	-	40.00	50.00	70.00
	M.W. 512.77							
C10:0	TRIDECANOIN (CAPRIN)	T-120	-	-	-	35.00	45.00	60.00
	DICAPRIN	D-121	-	-	-	35.00	45.00	65.00
	1-3 ISOMER	D-122	15.00	35.00	40.00	55.00	75.00	95.00
	MONOCAPRIN	M-124	-	-	-	35.00	45.00	65.00
	M.W. 554.85							
C11:0	TRIUNDECANOIN (HENDECANOIN)	T-125	-	-	-	35.00	45.00	60.00
	DIUNDECANOIN	D-126	-	-	-	35.00	55.00	75.00
	1-3 ISOMER	D-127	30.00	45.00	55.00	65.00	80.00	100.00
	MONOUNDECANOIN	M-129	-	-	-	35.00	50.00	70.00
	M.W. 596.93							
C12:0	TRIDODECANOIN (LAURIN)	T-130	-	-	-	35.00	40.00	55.00
	DILAURIN	D-131	-	-	-	35.00	45.00	65.00
	1-3 ISOMER	D-132	15.00	35.00	40.00	55.00	70.00	90.00
	MONOLAURIN	M-134	-	-	-	35.00	45.00	65.00
	M.W. 639.02							
C13:0	TRITRIDECANOIN	T-135	-	-	-	45.00	55.00	65.00
	DITRIDECANOIN	D-136	-	-	-	45.00	55.00	75.00
	1-3 ISOMER	D-137	30.00	45.00	55.00	70.00	100.00	210.00
	MONOTRIDECANOIN	M-139	-	-	-	45.00	55.00	70.00
	M.W. 681.10							

- = Not available in this size.

M.W. - WEIGHTS GIVEN ARE FOR TRIGLYCERIDES ONLY

GLYCERIDES - SATURATED

Tri's - Di's - Mono's

CHAIN	GLYCERIDE	CATALOG #	10MG	25MG	50MG	100MG	500MG	1GM
C14:0	TRITETRADECANOIN (MYRISTIN)	T-140	-	-	-	40.00	45.00	60.00
	DIMYRISTIN	D-141	-	-	-	40.00	50.00	65.00
	1-3 ISOMER	D-142	15.00	30.00	40.00	55.00	60.00	75.00
	MONOMYRISTIN	M-144	-	-	-	45.00	55.00	65.00
	M.W. 723.18							
C15:0	TRIPENTADECANOIN	T-145	-	-	-	45.00	65.00	75.00
	DIPENTADECANOIN	D-146	-	-	-	45.00	65.00	75.00
	1-3 ISOMER	D-147	30.00	45.00	65.00	70.00	130.00	240.00
	MONOPENTADECANOIN	M-149	-	-	-	45.00	60.00	75.00
	M.W. 765.26							
C16:0	TRIHEXADECANOIN (PALMITIN)	T-150	-	-	-	40.00	45.00	55.00
	DIPALMITIN	D-151	-	-	-	40.00	50.00	70.00
	1-3 ISOMER	D-152	15.00	25.00	30.00	40.00	60.00	75.00
	MONOPALMITIN	M-154	-	-	-	40.00	55.00	65.00
	M.W. 807.34							
C17:0	TRIHEPTADECANOIN (MARGARIN)	T-155	-	-	-	45.00	65.00	75.00
	DIHEPTADECANOIN	D-156	-	-	-	45.00	65.00	75.00
	1-3 ISOMER	D-157	30.00	45.00	65.00	70.00	130.00	240.00
	MONOHEPTADECANOIN	M-159	-	-	-	45.00	65.00	75.00
	M.W. 849.42							
C18:0	TRIOCTADECANOIN (STEARIN)	T-160	-	-	-	40.00	45.00	55.00
	DISTEARIN	D-161	-	-	-	40.00	50.00	70.00
	1-3 ISOMER	D-162	15.00	25.00	30.00	40.00	60.00	75.00
	MONOSTEARIN	M-164	-	-	-	40.00	55.00	65.00
	M.W. 891.50							
C19:0	TRINONADECANOIN	T-165	-	-	-	45.00	65.00	75.00
	DINONADECANOIN	D-166	-	-	-	45.00	65.00	80.00
	1-3 ISOMER	D-167	30.00	45.00	65.00	70.00	130.00	240.00
	MONONONADECANOIN	M-169	-	-	-	55.00	65.00	85.00
	M.W. 933.58							
C20:0	TRIEICOSANOIN (ARACHIDIN)	T-170	-	-	-	45.00	60.00	75.00
	DIARACHIDIN	D-171	-	-	-	45.00	60.00	75.00
	1-3 ISOMER	D-172	15.00	30.00	40.00	55.00	95.00	135.00
	MONOARACHIDIN	M-174	-	-	-	55.00	65.00	85.00
	M.W. 975.66							
C21:0	TRIHENEICOSANOIN	T-175	-	-	-	80.00	95.00	135.00
	DIHENEICOSANOIN	D-176	-	-	-	80.00	95.00	150.00
	1-3 ISOMER	D-177	30.00	45.00	65.00	90.00	140.00	260.00
	MONOHENEICOSANOIN	M-179	-	-	-	90.00	250.00	360.00
	M.W. 1017.74							
C22:0	TRIDOCOSANOIN (BEHENIN)	T-180	-	-	-	50.00	65.00	75.00
	DIBEHENIN	D-181	-	-	-	50.00	65.00	75.00
	1-3 ISOMER	D-182	15.00	30.00	35.00	55.00	90.00	130.00
	MONOBEHENIN	M-184	-	-	-	50.00	65.00	80.00
	M.W. 1059.82							
23:0	TRITRICOSANOIN	T-185				100.00	125.00	195.00
24:0	TRILIGNOCERIN	T-190				100.00	125.00	195.00

- = Not available in this size.

M.W. - WEIGHTS GIVEN ARE FOR TRIGLYCERIDES ONLY

GLYCERIDES - UNSATURATED

Tri's - Di's - Mono's

CHAIN	GLYCERIDE	CATALOG #	10MG	25MG	50MG	100MG	500MG	1GM
C11:1	TRIUNDECENOIN	T-200	-	-	-	45.00	55.00	75.00
	DIUNDECENOIN	D-201	-	-	-	50.00	60.00	75.00
	1-3 ISOMER	D-202	35.00	45.00	60.00	75.00	90.00	130.00
	MONOUNDECENOIN	M-204	-	-	-	45.00	55.00	75.00
Δ 10 cis	M.W. 590.93							
C12:1	TRIDODECENOIN	T-195	-	-	-	55.00	65.00	85.00
	DIDODECENOIN	D-196	-	-	-	60.00	70.00	95.00
	1-3 ISOMER	D-197	35.00	45.00	60.00	75.00		
	MONODODECENOIN	M-199	-	-		60.00	70.00	95.00
Δ 11 cis	M.W. 633.01							
C14:1	TRITETRADECENOIN	T-205	-	-	-	130.00	440.00	750.00
	(MYRISTOLEIN)							
	DIMYRISTOLEIN	D-206	55.00	90.00	135.00	185.00		
	1-3 ISOMER	D-207	95.00	170.00	235.00	340.00		
Δ 9 cis	M.W. 717.18							
C16:1	TRIHEXADECENOIN	T-215	-	-	-	45.00	60.00	75.00
	(PALMITOLEIN)							
	DIPALMITOLEIN	D-216	-	-	-	55.00	75.00	110.00
	1-3 ISOMER	D-217	35.00	45.00	65.00	75.00	130.00	230.00
Δ 9 cis	MONOPALMITOLEIN	M-219	-	-	-	45.00	60.00	80.00
	M.W. 801.34							
C16:1T	TRIPALMITELAIDIN	T-220	-	-	-	55.00	80.00	110.00
	DIPALMITELAIDIN	D-221	-	-	-	75.00	100.00	160.00
	1-3 ISOMER	D-222	40.00	50.00	65.00	85.00		
	MONOPALMITELAIDIN	M-224	-	-		75.00	100.00	160.00
Δ 9 TRANS	M.W. 801.34							
C17:1	TRIHEPTADECENOIN	T-404	-	-	-	95.00	280.00	420.00
	DIHEPTADECENOIN	D-405	55.00	65.00	80.00	110.00	280.00	420.00
	1-3 ISOMER	D-406	-	-	-	110.00		
	MONOHEPTADECENOIN	M-407	-	-	-	85.00	280.00	420.00
Δ 10 Cis	M.W. 843.42							
C18:1	TRIOCTADECENOIN	T-225	-	-	-	50.00	55.00	70.00
	(PETROSELININ)							
	DIPETROSELININ	D-226	-	-	-	50.00	55.00	100.00
	1-3 ISOMER	D-227	35.00	45.00	60.00	75.00	100.00	160.00
Δ 6 Cis	MONOPETROSELININ	M-229	-	-	-	50.00	55.00	80.00
	M.W. 885.50							
C18:1T	TRIPETROSELAIDIN	T-230	-	-	-	65.00	100.00	170.00
	DIPETROSELAIDIN	D-231	35.00	45.00	55.00	75.00	110.00	170.00
	1-3 ISOMER	D-232	40.00	50.00	60.00	85.00		
	MONOPETROSELAIDIN	M-234	-	-	-	75.00	110.00	170.00
Δ 6 TRANS	M.W. 885.50							
C18:1	TRIOCTADECENOIN	T-235	-	-	-	35.00	40.00	45.00
	(OLEIN)							
	DIOLEIN	D-236	-	-	-	30.00	45.00	60.00
	1-3 ISOMER	D-237	15.00	20.00	30.00	35.00	70.00	110.00
Δ 9 Cis	MONOOLEIN	M-239	-	-	-	45.00	55.00	80.00
	M.W. 885.50							

- = Not available in this size.

M.W. - WEIGHTS GIVEN ARE FOR TRIGLYCERIDES ONLY

GLYCERIDES - UNSATURATED

Tri's - Di's - Mono's

CHAIN	GLYCERIDE	CATALOG #	10MG	25MG	50MG	100MG	500MG	1GM
C18:1T	TRIELAIDIN	T-240	-	-	-	40.00	45.00	55.00
	DIELAIDIN	D-241	-	-	-	50.00	65.00	75.00
	1-3 ISOMER	D-242	35.00	45.00	55.00	70.00	90.00	130.00
	MONOELAIDIN	M-244	-	-	-	50.00	65.00	85.00
Δ 9 TRANS	M.W. 885.50							
C18:1	TRIOCTADECENOIN	T-245	-	-	-	60.00	190.00	335.00
	(VACCENIN)							
	DIVACCENIN	D-246	40.00	50.00	60.00	80.00	240.00	395.00
	1-3 ISOMER	D-247	45.00	55.00	65.00	85.00	270.00	395.00
	MONOVACCENIN	M-249	-	-	-	80.00	240.00	395.00
Δ 11 Cis	M.W. 885.50							
C18:2 Cis	TRIOCTADECADIENOIN	T-250	-	-	-	35.00	40.00	45.00
	(LINOLEIN)							
	DILINOLEIN	D-251	-	-	-	30.00	45.00	60.00
	1-3 ISOMER	D-252	15.00	20.00	30.00	35.00	70.00	110.00
Δ 9 Cis	MONOLINOLEIN	M-254	-	-	-	45.00	55.00	70.00
12 Cis	M.W. 879.50							
C18:2TT	TRANS TRIOCTADECADIENOIN	T-255	-	-	-	45.00	55.00	70.00
	(LINOELAIDIN)							
	DILINOELAIDIN	D-256	-	-	-	55.00	120.00	175.00
	1-3 ISOMER	D-257	40.00	50.00	60.00	85.00		
Δ 9 TRANS	MONOLINOELAIDIN	M-259	-	-	-	70.00	170.00	250.00
12 TRANS	M.W. 879.50							
C18:3	TRIOCTADECATRIENOIN	T-260	-	-	-	50.00	60.00	70.00
	(ALPHA LINOLENIN)							
	DILINOLENIN	D-261	-	-	-	50.00	95.00	150.00
	1-3 ISOMER	D-262	40.00	50.00	60.00	70.00	120.00	170.00
Δ 9 cis	MONOLINOLENIN	M-264	-	-	-	65.00	95.00	150.00
12 cis	M.W. 873.50							
C18:3	TRIOCTADECATRIENOIN	T-265	-	-	-	55.00	70.00	95.00
	(GAMMA LINOLENIN)							
	DIGAMMA LINOLENIN	D-266	35.00	45.00	55.00	60.00	195.00	340.00
	1-3 ISOMER	D-267	40.00	50.00	60.00	80.00		
Δ 6 cis	MONO (GAMMA) LINOLENIN	M-269	-	-	-	65.00	200.00	345.00
9 cis	M.W. 873.50							
C19:1	TRINONADECENOIN	T-412	-	-	-	75.00	285.00	470.00
	DINONADECENOIN	D-413	35.00	45.00	60.00	75.00		
	1-3 ISOMER	D-414	40.00	50.00	65.00	90.00		
	MONONONADECENOIN	M-415				75.00		
Δ 10 cis								
C19:2	TRINONADECADIENOIN	T-416	-	-	-	75.00		
	DINONADECADIENOIN	D-417	35.00	45.00	60.00	75.00		
	1-3 ISOMER	D-418	40.00	50.00	65.00	90.00		
	MONONONADECADIENOIN	M-419				75.00		
Δ 10 cis								
C20:1	TRIEICOSENOIN	T-270	-	-	-	55.00	65.00	90.00
	DIEICOSENOIN	D-271	-	-	-	55.00	65.00	90.00
	1-3 ISOMER	D-272	35.00	45.00	60.00	75.00	95.00	130.00
	MONOEICOSENOIN	M-274	-	-	-	65.00	75.00	110.00
Δ 11 cis	M.W. 969.66							

- = Not available in this size.

M.W. - WEIGHTS GIVEN ARE FOR TRIGLYCERIDES ONLY

GLYCERIDES - UNSATURATED

Tri's - Di's - Mono's

CHAIN	GLYCERIDE	CATALOG #	10MG	25MG	50MG	100MG	500MG	1GM
C20:1T	Δ 11-TRANS TRIEICOSENOIN	T-275	-	-	-	80.00		
	DITRANSEICOSENOIN	D-276	35.00	45.00	60.00	80.00		
	1-3 ISOMER	D-277	40.00	50.00	70.00	65.00		
	MONOTRANSEICOSENOIN	M-279				80.00		
	M.W. 969.66							
C20:2	Δ 11-14 CIS TRIEICOSADIENIN	T-280	-	-	-	85.00		
	DIEICOSADIENIN	D-281	-	-	-	85.00		
	1-3 ISOMER	D-282	45.00	60.00	70.00	105.00		
	MONOEICOSADIENIN	M-284	-	-	-	90.00		
	M.W. 951.44							
C20:3	Δ 8-11-14 TRIEICOSATRIENIN	T-285	-	-	-	95.00	260.00	385.00
	(HOMOGAMMA)							
	DIEICOSATRIENIN	D-286	-	-	-	95.00		
	(HOMOGAMMA)							
	1-3 ISOMER	D-288	55.00	65.00	75.00	95.00		
all cis	MONOEICOSATRIENIN							
	(HOMOGAMMA)	M-289	-	-	-	95.00		
	M.W. 957.66							
C20:3	Δ 11-14-17 TRIEICOSATRIENIN	T-290	-	-	-	80.00		
	DIEICOSATRIENIN	D-291	-	-	-	80.00		
	1-3 ISOMER	D-292	45.00	60.00	70.00	95.00		
	MONOEICOSATRIENIN	M-294	-	-	-	80.00		
	M.W. 957.66							
C20:4	Δ 5-8-11-14 TRIEICOSATETRAENIN	T-295	45.00	60.00	70.00	90.00	260.00	405.00
	(ARACHIDONIN)							
	DIARACHIDONIN	D-296	-	-	-	90.00		
	1-3 ISOMER	D-297	55.00	60.00	70.00	95.00		
	MONOARACHIDONIN	M-299				90.00	300.00	405.00
all cis	M.W. 951.66							
C20:5	Δ 5-8-11-14-17 all cis	T-325	85.00	100.00	140.00	170.00	440.00	670.00
	TRIEICOSAPENTAENIN							
C21:1	Δ 12 CIS TRIHENEICOSENOIN	T-320	-	-	-	110.00		
C22:1	TRIDOCOSENOIN (ERUCIN)	T-300	-	-	-	45.00	55.00	75.00
	DIERUCIN	D-301	-	-	-	50.00	65.00	90.00
	1-3 ISOMER	D-302	35.00	45.00	55.00	75.00	130.00	180.00
	MONOERUCIN	M-304	-	-	-	55.00	70.00	90.00
	M.W. 1053.82							
Δ 13 cis								
C22:1	TRIDOCOSENOIN	T-305	-	-	-	65.00	80.00	110.00
	(BRASSIDIN)							
	DIBRASSIDIN	D-306	-	-	-	65.00		
	1-3 ISOMER	D-307	40.00	50.00	60.00	85.00		
	MONOBRASSIDIN	M-309	-	-	-	80.00		
Δ 13 TRANS	M.W. 1053.82							
C22:6	TRIDOCOSAHEXAENIN	T-310	55.00	65.00	75.00	110.00	270.00	415.00
	DIDOCOSAHEXAENIN	D-311	55.00	65.00	75.00	110.00	270.00	415.00
	MONODOCOSAHEXAENIN	M-314	55.00	65.00	75.00	110.00	295.00	455.00
Δ 4-7-10								
13-16-19	M.W. 1023.82							

- = Not available in this size.

M.W. - WEIGHTS GIVEN ARE FOR TRIGLYCERIDES ONLY

GLYCERIDES - UNSATURATED

Tri's - Di's - Mono's

CHAIN	GLYCERIDE	CATALOG #	10MG	25MG	50MG	100MG	500MG	1GM
C24:1	TRITETRACOSENOIN	T-315	-	-	-	95.00	130.00	200.00
	(NERVONIN)							
	DINERVONIN	D-316	-	-	-	95.00		
	1-3 ISOMER	D-317	45.00	55.00	65.00	100.00		
	MONONERVONIN	M-319	-	-	-	95.00		
Δ 15 cis	M.W. 1137.98							

- = Not available in this size.

M.W. - WEIGHTS GIVEN ARE FOR TRIGLYCERIDES ONLY

FATTY ALCOHOLS

Fatty alcohols, or as they are sometimes called, higher alcohols, are monohydric aliphatic alcohols containing a large number of carbon atoms terminating with a hydroxyl group. They have many uses both commercially and in research, especially in the field of detergents and plasticizers.

Nu-Chek Fatty Alcohols are prepared by the reduction of the chromatographically pure methyl ester. Trace impurities are removed by high vacuum fractional distillation. The final product is analyzed both by GLC and TLC and only those fractions which meet our rigid purity specifications are designated for product availability.

SATURATED SERIES

CHAIN	ALCOHOL	CATALOG #	100MG	500MG	1GM	5GM	10GM	25GM
C8:0	OCTANOL M.W. 130.20	A-608	20.00	28.00	33.00	90.00	140.00	275.00
C9:0	NONANOL M.W. 144.20	A-609	35.00	45.00	65.00			
C10:0	DECANOL M.W. 158.27	A-610	20.00	28.00	33.00	90.00	140.00	275.00
C11:0	UNDECANOL M.W. 172.30	A-611	40.00	45.00	65.00			
C12:0	LAURYL M.W. 184.33	A-612	20.00	28.00	33.00	90.00	140.00	275.00
C13:0	TRIDECANOL M.W. 200.33	A-613	35.00	45.00	65.00			
C14:0	MYRISTYL M.W. 214.36	A-614	20.00	28.00	33.00	90.00	140.00	275.00
C15:0	PENTADECANOL M.W. 228.40	A-615	40.00	50.00	70.00			
C16:0	PALMITYL M.W. 242.42	A-616	20.00	28.00	33.00	90.00	140.00	275.00
C17:0	HEPTADECANOL M.W. 256.46	A-617	50.00	60.00	85.00			
C18:0	STEARYL M.W. 270.46	A-618	20.00	28.00	33.00	90.00	140.00	275.00
C18:0	12-HYDROXY STEARYL M.W. 286.46	A-619	50.00	60.00	85.00			

FATTY ALCOHOLS

(All Greater Than 99% Unless Otherwise Indicated)

SATURATED SERIES

CHAIN	ALCOHOL	CATALOG #	100MG	500MG	1GM	5GM	10GM	25GM
C19:0	NONADECANOL M.W. 284.50	A-620	50.00	65.00	85.00	320.00	550.00	
C20:0	ARACHIDYL M.W. 298.52	A-621	40.00	45.00	60.00	220.00	360.00	
C21:0	HENEICOSANOL M.W. 312.54	A-622	80.00	110.00	140.00			
C22:0	BEHENYL M.W. 326.56	A-623	40.00	45.00	60.00	220.00	360.00	
C23:0	TRICOSANOL M.W. 340.60	A-624	80.00	110.00	140.00			
C24:0	LIGNOCEROL M.W. 354.62	A-625	80.00	110.00	140.00			

FATTY ALCOHOLS

(All Greater Than 99% Unless Otherwise Indicated)

UNSATURATED SERIES

CHAIN	ALCOHOL	CATALOG #	100MG	500MG	1GM	5GM	10GM	25GM
C11:1	Δ 10-UNDECENOL M.W. 170.30	A-626	40.00	55.00	75.00			
C12:1	Δ 11-DODECENOL M.W. 184.33	A-627	55.00					
C13:1	Δ 12-TRIDECENOL M.W. 198.33	A-628	65.00					
C14:1	Δ 9 MYRISTOLEYL (TETRADECENOL) M.W. 212.36	A-629	95.00	260.00	315.00			
C14:1T	Δ 9 TRANS-MYRISTELAIDYL M.W. 212.36	A-630	160.00					
C15:1	Δ 10 PENTADECENOL M.W. 226.40	A-631	210.00					
C15:1T	Δ 10 TRANS-PENTADECENOL M.W. 226.40	A-632	270.00					
C16:1	Δ 9 PALMITOLEYL M.W. 240.42	A-633	45.00	60.00	75.00	265.00	500.00	1125.00
C16:1T	Δ 9 TRANS-PALMITELAIDYL M.W. 240.42	A-634	50.00	70.00	85.00	315.00	600.00	1330.00

FATTY ALCOHOLS
(All Greater Than 99% Unless Otherwise Indicated)
UNSATURATED SERIES

CHAIN	ALCOHOL	CATALOG #	100MG	500MG	1GM	5GM	10GM	25GM
C17:1	Δ 10 HEPTADECENOL M.W. 254.46	A-635	80.00	115.00				
C17:1T	Δ 10 TRANS-HEPTADECENOL M.W. 254.46	A-636	90.00	130.00				
C18:1	Δ 9 OLEYL M.W. 268.46	A-637	35.00	40.00	45.00	150.00	250.00	440.00
C18:1T	Δ 9 ELAIDYL M.W. 268.46	A-638	45.00	60.00	80.00			
C18:1	Δ 6 PETROSELINYL M.W. 268.46	A-639	45.00	60.00	80.00			
C18:1T	Δ 6 PETROSELAIDYL M.W. 268.46	A-640	65.00	80.00	100.00			
C18:1	Δ 9-12 OH RICINOLEYL M.W. 284.46	A-641	45.00	60.00	80.00			
C18:1T	Δ 9-12 OH RICINELAIDYL M.W. 284.46	A-642	70.00					
C18:1	Δ 11 VACCENYL M.W. 268.46	A-643	65.00	95.00	145.00			
C18:1T	Δ 11 TRANS-VACCENYL M.W. 268.46	A-644	90.00	130.00	230.00			
C18:2	Δ 9-12 LINOLEYL M.W. 266.45	A-645	40.00	55.00	75.00	200.00	320.00	720.00
C18:2TT	Δ 9-12 TRANS-LINOELAIDYL M.W. 266.45	A-646	40.00	55.00	75.00			
C18:3	Δ 9-12-15 ALPHA LINOLENYL M.W. 264.44	A-647	45.00	60.00	80.00	330.00	540.00	
C18:3	Δ 6-9-12 GAMMA LINOLENYL M.W. 264.44	A-648	70.00	110.00	170.00			
C19:1	Δ 7-NONADECENYL M.W. 282.46	A-665	100.00					
C19:1T	Δ 7-TRANS-NONADECENYL M.W. 282.46	A-666	145.00					

FATTY ALCOHOLS

(All Greater Than 99% Unless Otherwise Indicated)

UNSATURATED SERIES

CHAIN	ALCOHOL	CATALOG #	100MG	500MG	1GM	5GM	10GM	25GM
C19:1	Δ 10-NONADECENYL M.W. 282.46	A-667	80.00	110.00	170.00			
C19:1T	Δ 10-TRANS-NONADECENYL M.W. 282.46	A-668	100.00	130.00	235.00			
C19:2	Δ 10-13 NONADECADIENYL M.W. 280.46	A-671	100.00					
C20:1	Δ 11-EICOSENYL M.W. 296.52	A-649	50.00	60.00	80.00			
C20:2	Δ 11-14 EICOSADIENOL M.W. 294.52	A-650	70.00	80.00	105.00			
C20:3	Δ 11-14-17 EICOSATRIENOL M.W. 292.51	A-651	70.00	80.00	110.00			
C20:3	Δ 8-11-14 HOMO GAMMA LINOLENYL M.W. 292.51	A-652	10MG 55.00	25MG 70.00	50MG 85.00	100MG 105.00		
C20:4	Δ 5-8-11-14 ARACHIDONYL M.W. 290.52	A-654	80.00	130.00	205.00	770.00	1450.00	3500.00
C20:5	Δ 5-8-11-14-17 EICOSAPENTAENOL M.W. 288.52	A-655	155.00					
C21:1	Δ 12 HENEICOSENYL M.W. 293.52	A-653	145.00					
C22:1	Δ 13 ERUCYL M.W. 324.56	A-657	50.00	60.00	75.00	275.00	500.00	
C22:1T	Δ 13 BRASSIDYL M.W. 324.56	A-658	75.00	95.00	110.00	400.00	700.00	
C22:2	Δ 13-16 DOCOSADIENOL M.W. 322.54	A-659	105.00					
C22:3	Δ 13-16-19 DOCOSATRIENOL M.W. 320.53	A-660	105.00					
C22:4	Δ 7-10-13-16 DOCOSATETRAENOL M.W. 318.52	A-661	105.00					
C22:5	Δ 7-10-13-16-19 DOCOSAPENTAENOL M.W. 316.52	A-656	240.00					
C22:6	Δ 4-7-10-13-16-19 DOCOSAHEXAENOL M.W. 314.50	A-662	80.00	135.00	220.00	775.00	1450.00	3500.00
C23:1	Δ 14 TRICOSENYL M.W. 338.60	A-663	110.00					
C24:1	Δ 15 NERVONYL M.W. 352.62	A-664	95.00					

FATTY ACETATES
(All Greater Than 99%, Unless Otherwise Indicated)
SATURATED SERIES

CHAIN	ACETATE	CATALOG #	100MG	500MG	1GM
C8:0	OCTANYL M.W. 178.25	AC-705	20.00	25.00	30.00
C9:0	NONANYL M.W. 186.25	AC-706	30.00	45.00	65.00
C10:0	DECANYL M.W. 200.32	AC-707	20.00	25.00	30.00
C11:0	UNDECANYL M.W. 214.35	AC-708	30.00	45.00	65.00
C12:0	LAURYL M.W. 228.38	AC-709	20.00	25.00	30.00
C13:0	TRIDECANYL M.W. 242.38	AC-710	35.00	50.00	75.00
C14:0	MYRISTYL M.W. 256.41	AC-711	20.00	25.00	30.00
C15:0	PENTADECANYL M.W. 270.45	AC-712	45.00	60.00	85.00
C16:0	PALMITYL M.W. 284.47	AC-713	20.00	25.00	30.00
C17:0	HEPTADECANYL M.W. 298.51	AC-714	45.00	60.00	85.00
C18:0	STEARYL M.W. 312.51	AC-715	20.00	25.00	30.00
C19:0	NONADECANYL M.W. 326.55	AC-716	45.00	60.00	85.00
C20:0	ARACHIDYL M.W. 340.57	AC-717	25.00	35.00	40.00
C21:0	HENEICOSANYL M.W. 354.59	AC-718	65.00	90.00	110.00
C22:0	BEHENYL M.W. 368.61	AC-719	25.00	35.00	40.00
C23:0	TRICOSANYL M.W. 382.65	AC-720	65.00	80.00	110.00
C24:0	LIGNOCERYL M.W. 396.67	AC-721	65.00	80.00	110.00

FATTY ACETATES
(All Greater Than 99%, Unless Otherwise Indicated)
UNSATURATED SERIES

CHAIN	ACETATE	CATALOG #	100MG	500MG	1GM
C11:1	Δ 10-UNDECENYL M.W. 212.35	AC-722	30.00	40.00	55.00
C12:1	Δ 11-DODECENYL M.W. 226.38	AC-723	50.00		
C13:1	Δ 12-TRIDECENYL M.W. 240.38	AC-724	55.00		
C14:1	Δ 9 MYRISTOLEYL M.W. 254.41	AC-725	185.00		
C15:1	Δ 10 PENTADECENYL M.W. 268.45	AC-727	265.00		
C16:1	Δ 9 PALMITOLEYL M.W. 282.47	AC-729	35.00	45.00	60.00
C16:1T	Δ 9 PALMITELAIDYL M.W. 282.47	AC-730	40.00	55.00	70.00
C17:1	Δ 10 HEPTADECENYL M.W. 296.51	AC-731	75.00		
C18:1	Δ 9 OLEYL M.W. 310.51	AC-733	25.00	30.00	40.00
C18:1T	Δ 9 ELAIDYL M.W. 310.51	AC-734	35.00	45.00	65.00
C18:1	Δ 6 PETROSELINYL M.W. 310.51	AC-735	35.00	45.00	65.00
C18:1T	Δ 6 PETROSELAIDYL M.W. 310.51	AC-736	65.00		

UNSATURATED FATTY ACETATES (Cont.)

CHAIN	ACETATE	CATALOG #	100MG	500MG	1GM	
C18:1	Δ 11 VACCENYL M.W. 310.51	AC-739	50.00	65.00	90.00	
C18:1T	Δ 11 TRANS VACCENYL M.W. 310.51	AC-740	70.00	95.00	170.00	
C18:2	Δ 9-12 LINOLEYL M.W. 310.51	AC-741	25.00	30.00	40.00	
C18:2TT	Δ 9 -12 LINOELAIIDYL M.W. 308.51	AC-742	35.00	50.00	65.00	
C18:3	Δ 9-12-15 ALPHA LINOLENYL M.W. 306.51	AC-743	35.00	50.00	65.00	
C18:3	Δ 6-9-12 GAMMA LINOLENYL M.W. 306.51	AC-744	60.00	95.00	145.00	
C20:1	Δ 11-EICOSENYL M.W. 338.57	AC-745	35.00	45.00	65.00	
C20:2	Δ 11-14 EICOSADIENYL M.W. 336.57	AC-746	55.00	65.00	85.00	
C20:3	Δ 11-14-17 EICOSATRIENYL M.W. 334.57	AC-747	55.00	65.00	85.00	
C20:3	Δ 8-11-14 HOMO GAMMA LINOLENYL M.W. 334.57	AC-748	10MG 50.00	25MG 60.00	50MG 65.00	100MG 90.00
C20:4	Δ 5-8-11-14 ARACHIDONYL M.W. 332.57	AC-750	80.00			
C22:1	Δ 13 ERUCYL M.W. 366.81	AC-753	35.00	45.00	65.00	
C22:1T	Δ 13 BRASSIDYL M.W. 366.81	AC-754	55.00			
C22:2	Δ 13-16 DOCOSADIENYL M.W. 364.81	AC-755	85.00			
C22:6	Δ 4-7-10-13-16-19 DOCOSAHEXAENYL M.W. 356.81	AC-758	75.00			
C23:1	Δ 14 TRICOSENYL M.W. 380.65	AC-759	70.00			
C24:1	Δ 15 NERVONYL M.W. 394.65	AC-760	70.00			

CHOLESTEROL **(Lipid Derivatives)**

Our cholesterol esters are prepared by the interaction of the appropriate chromatographically pure methyl ester and highly purified cholesterol. Further purification is followed by column chromatography and low temperature crystallization. Only those fractions which show no residuals (even with large overloads) are isolated, sealed in glass under vacuum and stored under cold conditions until ready for shipment.

SATURATED SERIES **All Greater Than 99%, Unless Otherwise Indicated**

CHAIN		CATALOG #	MOL. WT.	100MG	500MG	1GM
	CHOLESTEROL	CH-800	386.70	30.00	35.00	40.00
C2:0	CHOLESTERYL ACETATE	CH-801	428.70	30.00	35.00	40.00
C4:0	CHOLESTERYL BUTYRATE	CH-803	456.80	40.00	55.00	65.00
C5:0	CHOLESTERYL VALERATE	CH-804	470.80	40.00	55.00	65.00
C5:0	CHOLESTERYL ISOVALERATE	CH-804X	470.80	40.00	55.00	65.00
C6:0	CHOLESTERYL CAPROATE	CH-805	484.80	40.00	55.00	65.00
C7:0	CHOLESTERYL HEPTANOATE	CH-806	498.80	40.00	50.00	60.00
C8:0	CHOLESTERYL CAPRYLATE	CH-807	512.80	40.00	50.00	60.00
C9:0	CHOLESTERYL NONANOATE	CH-808	526.90	40.00	50.00	60.00
C10:0	CHOLESTERYL CAPRATE	CH-809	540.90	40.00	50.00	60.00
C11:0	CHOLESTERYL UNDECANOATE	CH-810	555.00	40.00	50.00	60.00
C12:0	CHOLESTERYL LAURATE	CH-811	569.00	40.00	50.00	60.00
C13:0	CHOLESTERYL TRIDECANOATE	CH-812	583.00	40.00	50.00	60.00
C14:0	CHOLESTERYL MYRISTATE	CH-813	597.00	40.00	50.00	60.00
C15:0	CHOLESTERYL PENTADECANOATE	CH-814	611.10	40.00	50.00	60.00
C16:0	CHOLESTERYL PALMITATE	CH-815	625.10	40.00	50.00	60.00
C17:0	CHOLESTERYL HEPTADECANOATE	CH-816	639.10	40.00	60.00	70.00
C18:0	CHOLESTERYL STEARATE	CH-817	653.10	40.00	50.00	60.00
C19:0	CHOLESTERYL NONADECANOATE	CH-818	667.20	40.00	60.00	70.00
C20:0	CHOLESTERYL ARACHIDATE	CH-819	681.20	40.00	60.00	65.00
C21:0	CHOLESTERYL HENEICOSANOATE	CH-820	695.20	70.00	170.00	200.00
C22:0	CHOLESTERYL BEHENATE	CH-821	709.20	40.00	55.00	65.00
C23:0	CHOLESTERYL TRICOSANOATE	CH-822	723.30	65.00	170.00	200.00
C24:0	CHOLESTERYL LIGNOCERATE	CH-823	737.30	80.00	170.00	240.00

UNSATURATED SERIES

(All greater than 99% unless otherwise indicated.)

CHAIN		CATALOG #	MOL WT.	100MG	500MG	1GM	
C14:1	CHOLESTERYL MYRISTOLEATE	CH-824	595.10	300.00			
C14:1T	CHOLESTERYL MYRISTELAIDATE	CH-825	595.10	350.00			
C16:1	CHOLESTERYL PALMITOLEATE	CH-826	623.10	50.00	55.00	70.00	
C16:1T	CHOLESTERYL PALMITELAIDATE	CH-827	623.10	65.00	105.00	120.00	
C18:1	CHOLESTERYL OLEATE	CH-828	651.10	45.00	55.00	70.00	
C18:1T	CHOLESTERYL ELAIDATE	CH-829	651.10	50.00	60.00	75.00	
C18:1	CHOLESTERYL PETROSELINATE	CH-830	651.10	50.00	60.00	75.00	
C18:1T	CHOLESTERYL PETROSELAIDATE	CH-831	651.10	70.00	95.00	160.00	
C18:1	CHOLESTERYL VACCENATE (CIS)	CH-832	651.10	60.00	75.00	110.00	
C18:1T	CHOLESTERYL VACCENATE (TRANS)	CH-833	651.10	95.00	190.00	275.00	
C18:2	CHOLESTERYL LINOLEATE	CH-836	649.10	45.00	55.00	70.00	
C18:2TT	CHOLESTERYL LINOELAIDATE	CH-837	649.10	50.00	60.00	75.00	
C18:3	CHOLESTERYL ALPHA LINOLENATE	CH-838	647.10	55.00	65.00	75.00	
C18:3	CHOLESTERYL GAMMA LINOLENATE	CH-839	647.10	80.00			
C20:1	CHOLESTERYL 11-EICOSENOATE	CH-840	679.20	50.00	60.00	70.00	
C20:2	CHOLESTERYL 11-14 EICOSADIENOATE	CH-841	677.20	55.00	70.00	85.00	
C20:3	CHOLESTERYL 11-14-17 EICOSATRIENOATE	CH-842	675.20	55.00	75.00	105.00	
C20:3	CHOLESTERYL HOMO GAMMA LINOLENATE	CH-843	675.20	10MG 55.00	25MG 65.00	50MG 75.00	100MG 110.00
C20:4	CHOLESTERYL ARACHIDONATE	CH-845	673.10	75.00	270.00	500.00	
C20:5	CHOLESTERYL EICOSAPENTAENOATE	CH-846	671.20	175.00			
C22:1	CHOLESTERYL ERUCATE	CH-848	707.20	45.00	55.00	70.00	
C22:1T	CHOLESTERYL BRASSIDATE	CH-849	707.20	65.00			
C22:5	CHOLESTERYL DOCOSAPENTAENOATE	CH-856	699.30	200.00			

C INDICATES CHAIN LENGTH

OTHER CHOLESTERYL ESTERS AVAILABLE UPON REQUEST.

ALKYL METHANE SULFONATES
(ROSO₂ CH₃)
SATURATED SERIES
All Greater Than 99%

CHAIN	ITEM	CATALOG #	100MG	500MG	1GM	5GM	10GM	25GM
C6:0	HEXYL	MY-1000	20.00	35.00	55.00			
C7:0	HEPTYL	MY-1001	20.00	35.00	55.00			
C8:0	OCTYL	MY-1002	20.00	35.00	55.00	130.00	200.00	350.00
C9:0	NONYL	MY-1003	35.00	55.00	70.00			
C10:0	DECYL	MY-1004	25.00	35.00	40.00	130.00	200.00	350.00
C11:0	UNDECYL	MY-1005	35.00	55.00	60.00			
C12:0	DODECYL	MY-1006	25.00	35.00	40.00	130.00	200.00	350.00
C13:0	TRIDECYL	MY-1007	35.00	55.00	70.00			
C14:0	TETRADECYL	MY-1008	25.00	35.00	40.00	130.00	200.00	350.00
C15:0	PENTADECYL	MY-1009	35.00	55.00	70.00			
C16:0	HEXADECYL	MY-1010	25.00	40.00	45.00	130.00	200.00	350.00
C17:0	HEPTADECYL	MY-1011	50.00	65.00	85.00			
C18:0	OCTADECYL	MY-1012	25.00	35.00	40.00	130.00	200.00	350.00
C19:0	NONADECYL	MY-1013	50.00	65.00	85.00			
C20:0	EICOSYL	MY-1014	40.00	50.00	65.00	130.00	200.00	350.00
C21:0	HENEICOSYL	MY-1015	80.00	110.00	140.00			
C22:0	DOCOSYL	MY-1016	40.00	50.00	65.00	130.00	200.00	350.00

ALKYL METHANE SULFONATES
(ROSO₂ CH₃)
UNSATURATED SERIES

CHAIN	ITEM	CATALOG #	100MG	500MG	1GM	5GM	10GM	25GM
C11:1	10-UNDECENYL	MY-1040	45.00	65.00	95.00			
C14:1	MYRISTOLEYL	MY-1017	130.00	280.00	395.00			
C14:1T	MYRISTELAIDYL	MY-1018	150.00	380.00	540.00			
C16:1	PALMITOLEYL	MY-1019	55.00	65.00	75.00			
C16:1T	PALMITELAIDYL	MY-1020	60.00	80.00	100.00			
C18:1	OLEYL	MY-1021	40.00	50.00	60.00	170.00	295.00	490.00
C18:1T	ELAIDYL	MY-1022	50.00	65.00	90.00			
C18:1	VACCENYL (CIS)	MY-1023	75.00	110.00	145.00			
C18:1T	VACCENYL (TRANS)	MY-1024	95.00	130.00	230.00			
C18:1	PETROSELINYL	MY-1025	50.00	65.00	90.00			
C18:1T	PETROSELAIDYL	MY-1026	75.00	100.00	135.00			
C18:2	LINOLEYL	MY-1029	40.00	50.00	60.00	170.00	295.00	490.00
C18:2TT	LINOELAIDYL	MY-1030	50.00	65.00	80.00			
C18:3	ALPHA LINOLENYL	MY-1031	55.00	65.00	90.00	350.00	610.00	1300.00
C18:3	GAMMA LINOLENYL	MY-1050	75.00	120.00	180.00			
C20:1	11-EICOSENYL	MY-1032	50.00	65.00	90.00			
C20:2	11-14 EICOSADIENYL	MY-1033	70.00	85.00	110.00			
C20:3	11-14-17 EICOSATRIENYL	MY-1034	70.00	85.00	110.00			
C20:4	ARACHIDONYL	MY-1035	85.00	170.00	230.00	975.00	1800.00	
C22:1	ERUCYL	MY-1037	50.00	65.00	80.00			
C22:6	DOCOSAHEXAENOYL	MY-1038	80.00	145.00	230.00	975.00	1800.00	
C24:1	NERVONYL	MY-1039	95.00	120.00	180.00			

C INDICATES CHAIN LENGTH

**OTHER ALKYL METHANE SULFONATES OF OUR FATTY ACIDS
AVAILABLE UPON REQUEST.**

SOAPS

All Greater Than 99%

CHAIN	SODIUM DERIVATIVE OF	CATALOG #	100MG	500MG	1GM	5GM	10GM	25GM
C3:0	PROPIONATE	S-1138	25.00	35.00	45.00			
C4:0	BUTYRATE	S-1139	25.00	35.00	45.00			
C5:0	VALERATE	S-1140	25.00	35.00	45.00			
C6:0	CAPROATE	S-1100	25.00	35.00	45.00	65.00	90.00	130.00
C7:0	HEPTANOATE	S-1141	25.00	35.00	45.00			
C8:0	CAPRYLATE	S-1101	25.00	35.00	45.00	65.00	90.00	155.00
C9:0	NONANOATE	S-1102	25.00	35.00	45.00			
C10:0	CAPRATE	S-1103	25.00	35.00	45.00	65.00	90.00	155.00
C11:0	UNDECANOATE	S-1104	25.00	35.00	45.00			
C12:0	LAURATE	S-1105	25.00	35.00	45.00	65.00	90.00	155.00
C13:0	TRIDECANOATE	S-1106	25.00	35.00	45.00			
C14:0	MYRISTATE	S-1107	25.00	35.00	45.00	65.00	90.00	155.00
C15:0	PENTADECANOATE	S-1108	25.00	35.00	45.00			
C16:0	PALMITATE	S-1109	25.00	30.00	35.00	65.00	90.00	155.00
C17:0	HEPTADECANOATE	S-1110	25.00	35.00	50.00			
C18:0	STEARATE	S-1111	25.00	30.00	35.00	65.00	90.00	155.00
C19:0	NONADECANOATE	S-1112	30.00	40.00	55.00			
C20:0	ARACHIDATE	S-1113	30.00	40.00	45.00			
C21:0	HENEICOSANOATE	S-1114	60.00					
C22:0	BEHENATE	S-1115	30.00	40.00	50.00			
C11:1	10-UNDECENOATE	S-1142	55.00					
C14:1	MYRISTOLEATE	S-1116	195.00					
C14:1T	MYRISTELAIDATE	S-1117	245.00					
C16:1	PALMITOLEATE	S-1118	40.00	50.00	70.00			
C16:1T	PALMITELAIDATE	S-1119	55.00					
C18:1	OLEATE	S-1120	35.00	40.00	50.00			
C18:1T	ELAIDATE	S-1121	40.00	50.00	65.00			
C18:1	VACCENATE (CIS)	S-1122	55.00	75.00	115.00			
C18:1T	VACCENATE (TRANS)	S-1123	85.00					
C18:1	RICINOLEATE	S-1124	40.00	50.00	65.00			
C18:1T	RICINELAIDATE	S-1125	75.00	85.00	150.00			
C18:1	PETROSELINATE	S-1126	40.00	50.00	65.00			
C18:2	LINOLEATE	S-1127	35.00	40.00	45.00			
C18:2TT	LINOELAIDATE	S-1128	40.00	50.00	70.00			
C18:3	ALPHA LINOLENATE	S-1129	40.00	50.00	70.00			
C20:1	11-EICOSENOATE	S-1130	40.00	50.00	70.00			
C20:2	11-14 EICOSADIENOATE	S-1131	65.00	80.00	110.00			
C20:3	HOMOGAMMA LINOLENATE	S-1143	90.00	325.00	400.00			
C20:3	11-14-17 EICOSATRIENOATE	S-1132	65.00	85.00	115.00			
			10 MG	25MG	50MG	100MG	500 MG	1 GM
C20:4	ARACHIDONATE	S-1133	30.00	50.00	70.00	90.00	180.00	250.00
C20:5	EICOSAPENTAENOATE	S-1144	45.00	60.00	90.00	170.00		
C22:5 N3	DOCOSAPENTAENOATE	S-1145	65.00	130.00	210.00	295.00		
C22:5 N6	DOCOSAPENTAENOATE	S-1147	90.00	170.00	230.00	360.00		
C22:2	DOCOSADIENOATE	S-1148	65.00	95.00	155.00			
C22:3	DOCOSATRIENOATE	S-1149	65.00	95.00	155.00			
C22:4	DOCOSATETRAENOATE	S-1150	65.00	95.00	155.00			
C22:1	ERUCATE	S-1135	40.00	50.00	70.00			
C24:1	NERVONATE	S-1137	40.00	50.00	70.00			

OTHER SOAPS OF OUR FATTY ACIDS AVAILABLE UPON REQUEST.

Exact Weights may be obtained if desired with an additional \$4.00 service charge per vial. State exact weight when ordering.

WAX ESTERS SATURATED SERIES

ITEM	CATALOG #	100MG	500MG	1GM
LAURYL LAURATE	WE-1301	40.00	55.00	75.00
LAURYL MYRISTATE	WE-1302	40.00	55.00	75.00
LAURYL PALMITATE	WE-1303	40.00	55.00	75.00
LAURYL STEARATE	WE-1304	40.00	55.00	75.00
LAURYL ARACHIDATE	WE-1305	40.00	55.00	75.00
LAURYL BEHENATE	WE-1306	40.00	55.00	75.00
MYRISTYL LAURATE	WE-1307	40.00	55.00	75.00
MYRISTYL MYRISTATE	WE-1308	40.00	55.00	75.00
MYRISTYL PALMITATE	WE-1309	40.00	55.00	75.00
MYRISTYL STEARATE	WE-1310	40.00	55.00	75.00
MYRISTYL ARACHIDATE	WE-1311	40.00	55.00	75.00
MYRISTYL BEHENATE	WE-1312	40.00	55.00	75.00
PALMITYL LAURATE	WE-1313	40.00	55.00	75.00
PALMITYL MYRISTATE	WE-1314	40.00	55.00	75.00
PALMITYL PALMITATE	WE-1315	40.00	55.00	75.00
PALMITYL STEARATE	WE-1316	40.00	55.00	75.00
PALMITYL ARACHIDATE	WE-1317	40.00	55.00	75.00
PALMITYL BEHENATE	WE-1318	40.00	55.00	75.00
HEPTADECANYL HEPTADECANOATE	WE-1717	75.00	110.00	180.00
HEPTADECANYL STEARATE	WE-1718	60.00	80.00	110.00
STEARYL LAURATE	WE-1319	40.00	55.00	70.00
STEARYL MYRISTATE	WE-1320	40.00	55.00	70.00
STEARYL PALMITATE	WE-1321	40.00	55.00	70.00
STEARYL STEARATE	WE-1322	40.00	55.00	70.00
STEARYL ARACHIDATE	WE-1323	40.00	55.00	70.00
STEARYL BEHENATE	WE-1324	40.00	55.00	70.00
ARACHIDYL LAURATE	WE-1325	45.00	55.00	70.00
ARACHIDYL MYRISTATE	WE-1326	45.00	55.00	70.00
ARACHIDYL PALMITATE	WE-1327	45.00	55.00	70.00
ARACHIDYL STEARATE	WE-1328	45.00	55.00	70.00
ARACHIDYL ARACHIDATE	WE-1329	45.00	55.00	70.00
ARACHIDYL BEHENATE	WE-1330	45.00	55.00	70.00
BEHENYL LAURATE	WE-1331	45.00	55.00	70.00
BEHENYL MYRISTATE	WE-1332	45.00	55.00	70.00
BEHENYL PALMITATE	WE-1333	45.00	55.00	70.00
BEHENYL STEARATE	WE-1334	45.00	55.00	70.00
BEHENYL ARACHIDATE	WE-1335	45.00	55.00	70.00
BEHENYL BEHENATE	WE-1336	45.00	55.00	70.00
BEHENYL LIGNOCERATE	WE-2224	60.00	80.00	110.00
LIGNOCERYL LIGNOCERATE	WE-2424	60.00	80.00	110.00

UNSATURATED SERIES

ITEM	CATALOG #	100MG	500MG	1GM
LAURYL PALMITOLEATE	WE-1338	45.00	55.00	75.00
LAURYL OLEATE	WE-1339	40.00	55.00	75.00
LAURYL LINOLEATE	WE-1340	40.00	55.00	75.00

UNSATURATED SERIES

ITEM	CATALOG #	100MG	500MG	1GM
LAURYL LINOLENATE	WE-1341	45.00	55.00	70.00
LAURYL ARACHIDONATE	WE-1342	70.00		
LAURYL MYRISTOLEATE	WE-1343	300.00		
MYRISTYL PALMITOLEATE	WE-1344	45.00	55.00	70.00
MYRISTYL OLEATE	WE-1345	40.00	55.00	70.00
MYRISTYL LINOLEATE	WE-1346	40.00	55.00	70.00
MYRISTYL LINOLENATE	WE-1347	45.00	55.00	70.00
MYRISTYL ARACHIDONATE	WE-1348	75.00		
PALMITYL MYRISTOLEATE	WE-1349	280.00		
PALMITYL PALMITOLEATE	WE-1350	40.00	55.00	70.00
PALMITYL OLEATE	WE-1351	40.00	55.00	70.00
PALMITYL LINOLEATE	WE-1352	45.00	55.00	75.00
PALMITYL LINOLENATE	WE-1353	65.00		
PALMITYL ARACHIDONATE	WE-1354	75.00		
STEARYL MYRISTOLEATE	WE-1355	280.00		
STEARYL PALMITOLEATE	WE-1356	45.00	55.00	70.00
STEARYL OLEATE	WE-1357	40.00	55.00	70.00
STEARYL LINOLEATE	WE-1358	40.00	55.00	70.00
STEARYL LINOLENATE	WE-1359	45.00	55.00	70.00
STEARYL ARACHIDONATE	WE-1360	75.00		
ARACHIDYL MYRISTOLEATE	WE-1361	280.00		
ARACHIDYL PALMITOLEATE	WE-1362	45.00	55.00	70.00
ARACHIDYL OLEATE	WE-1363	40.00	55.00	70.00
ARACHIDYL LINOLEATE	WE-1364	40.00	55.00	70.00
ARACHIDYL LINOLENATE	WE-1365	45.00	55.00	70.00
ARACHIDYL ARACHIDONATE	WE-1366	75.00		
BEHENYL MYRISTOLEATE	WE-1367	270.00		
BEHENYL PALMITOLEATE	WE-1368	45.00	55.00	70.00
BEHENYL OLEATE	WE-1369	40.00	55.00	70.00
BEHENYL LINOLEATE	WE-1370	40.00	55.00	70.00
BEHENYL LINOLENATE	WE-1371	45.00	55.00	70.00
BEHENYL ARACHIDONATE	WE-1372	75.00		
MYRISTOLEYL LAURATE	WE-1373	280.00		
MYRISTOLEYL MYRISTATE	WE-1374	280.00		
MYRISTOLEYL PALMITATE	WE-1375	280.00		
MYRISTOLEYL STEARATE	WE-1376	280.00		
MYRISTOLEYL ARACHIDATE	WE-1377	280.00		
MYRISTOLEYL BEHENATE	WE-1378	280.00		
MYRISTOLEYL MYRISTOLEATE	WE-1379	280.00		
MYRISTOLEYL PALMITOLEATE	WE-1380	280.00		
MYRISTOLEYL OLEATE	WE-1381	280.00		
MYRISTOLEYL LINOLEATE	WE-1382	280.00		
MYRISTOLEYL LINOLENATE	WE-1383	280.00		
MYRISTOLEYL ARACHIDONATE	WE-1384	280.00		
PALMITOLEYL LAURATE	WE-1385	45.00	55.00	75.00
PALMITOLEYL MYRISTATE	WE-1386	45.00	55.00	75.00

UNSATURATED SERIES

ITEM	CATALOG #	100MG	500MG	1GM
PALMITOLEYL PALMITATE	WE-1387	50.00	60.00	75.00
PALMITOLEYL STEARATE	WE-1388	50.00	60.00	75.00
PALMITOLEYL ARACHIDATE	WE-1389	50.00	60.00	75.00
PALMITOLEYL BEHENATE	WE-1390	50.00	60.00	75.00
PALMITOLEYL MYRISTOLEATE	WE-1391	305.00		
PALMITOLEYL PALMITOLEATE	WE-1392	50.00	60.00	75.00
PALMITOLEYL OLEATE	WE-1393	50.00	60.00	75.00
PALMITOLEYL LINOLEATE	WE-1394	50.00	60.00	75.00
PALMITOLEYL LINOLENATE	WE-1395	50.00	60.00	75.00
PALMITOLEYL ARACHIDONATE	WE-1396	75.00	220.00	310.00
OLEYL LAURATE	WE-1397	40.00	60.00	70.00
OLEYL MYRISTATE	WE-1398	40.00	60.00	70.00
OLEYL PALMITATE	WE-1399	40.00	60.00	70.00
OLEYL STEARATE	WE-1400	40.00	60.00	70.00
OLEYL ARACHIDATE	WE-1401	40.00	60.00	70.00
OLEYL BEHENATE	WE-1402	40.00	60.00	70.00
OLEYL MYRISTOLEATE	WE-1403	305.00		
OLEYL PALMITOLEATE	WE-1404	40.00	60.00	70.00
OLEYL OLEATE	WE-1405	40.00	60.00	70.00
OLEYL LINOLEATE	WE-1406	40.00	60.00	70.00
OLEYL LINOLENATE	WE-1407	45.00	60.00	70.00
OLEYL ARACHIDONATE	WE-1408	75.00	220.00	300.00
LINOLEYL LAURATE	WE-1409	40.00	60.00	70.00
LINOLEYL MYRISTATE	WE-1410	40.00	60.00	70.00
LINOLEYL PALMITATE	WE-1411	40.00	60.00	70.00
LINOLEYL STEARATE	WE-1412	40.00	60.00	70.00
LINOLEYL ARACHIDATE	WE-1413	40.00	60.00	70.00
LINOLEYL BEHENATE	WE-1414	40.00	60.00	70.00
LINOLEYL MYRISTOLEATE	WE-1415	305.00		
LINOLEYL PALMITOLEATE	WE-1416	40.00	55.00	70.00
LINOLEYL OLEATE	WE-1417	40.00	55.00	70.00
LINOLEYL LINOLEATE	WE-1418	40.00	55.00	70.00
LINOLEYL LINOLENATE	WE-1419	40.00	55.00	70.00
LINOLEYL ARACHIDONATE	WE-1420	75.00		
LINOLENYL LAURATE	WE-1421	40.00	55.00	70.00
LINOLENYL MYRISTATE	WE-1422	45.00	55.00	75.00
LINOLENYL PALMITATE	WE-1423	45.00	55.00	75.00
LINOLENYL STEARATE	WE-1424	45.00	55.00	75.00
LINOLENYL ARACHIDATE	WE-1425	45.00	55.00	75.00
LINOLENYL BEHENATE	WE-1426	45.00	55.00	75.00
LINOLENYL MYRISTOLEATE	WE-1427	305.00		
LINOLENYL PALMITOLEATE	WE-1428	45.00	55.00	80.00
LINOLENYL OLEATE	WE-1429	45.00	55.00	80.00
LINOLENYL LINOLEATE	WE-1430	45.00	55.00	80.00
LINOLENYL LINOLENATE	WE-1431	45.00	55.00	80.00

**OTHER WAX ESTERS OF OUR FATTY ACIDS AVAILABLE ON REQUEST.
(INCLUDES ODD CHAINS OF OUR FATTY ACIDS)**

A LOOK AT NU-CHEK GLC & TLC STANDARDS

Our association with Lipid Researchers over the past 55 years; during meetings, seminars and conventions, has brought about suggestions in ways to improve product listing. One of these suggestions was that a larger listing of model mixtures that would be more representative of a specific oil would be of special interest. In this listing, we have included many new model standards along with our original series of exact weights in various percentages to assist you in GLC correlations.

If you have a special oil in mind which is not listed either as a natural oil or as a preweighed standard, please contact us.

Nu-Chek-Prep reference standards are prepared from individual chromatographically pure lipid esters. Each component used in making up our reference mixture is carefully checked by GLC using large overloads. Only those fractions which meet our rigid requirements go into the final make-up. After being weighed to the nearest tenth of a milligram, the combined material is again analyzed as a total mixture. They are then flushed with nitrogen, sealed in glass ampules under vacuum, and finally stored at 0 degrees C. until ready for shipment.

WHY NU-CHEK-PREP A B C MODEL STANDARDS?

From conversations with many GLC analysts throughout the country it was brought to our attention that many instruments were missing minor components by merely reading the top of peaks where base line shifts have occurred. In other words, equal weight quantities of various compounds are not always a true test for GLC analysis. To give you the most accurate test possible, we have designed a series of three standards:

(A) In Equal Weights

(B) Small to Large

(C) Large to Small

Price: 100 MG

SPECIAL SERVICE

Upon request, our glass-blowing department will seal your 100 mg ampule (at no extra charge) into 2 by 50 mg or 4 by 25 mg quantities. This special service is designed to assist GLC analysts in avoiding oxidation, especially when working with unsaturated standards.

% BY WEIGHT AS INDICATED					
CHAIN	ITEM	CATALOG #			PRICE
		1A	1B	1C	
C16:0	METHYL PALMITATE	20	5	35	\$55.00 EACH
C18:0	METHYL STEARATE	20	15	25	
C18:1	METHYL OLEATE	20	20	20	
C18:2	METHYL LINOLEATE	20	25	15	
C18:3	METHYL ALPHA LINOLENATE	20	35	5	
		2A	2B	2C	
C18:0	METHYL STEARATE	20	5	35	\$55.00 EACH
C18:1	METHYL OLEATE	20	15	25	
C18:2	METHYL LINOLEATE	20	20	20	
C18:3	METHYL ALPHA LINOLENATE	20	25	15	
C20:4	METHYL ARACHIDONATE	20	35	5	
		3A	3B	3C	
C18:2	METHYL LINOLEATE	25	10	45	\$55.00 EACH
C18:3	METHYL ALPHA LINOLENATE	25	20	25	
C20:4	METHYL ARACHIDONATE	25	25	20	
C22:6	METHYL DOCOSAHEXAENOATE	25	45	10	

C INDICATES CHAIN LENGTH

GLC MODEL MIXTURE REFERENCE STANDARDS

CHAIN	ITEM % BY WT. AS INDICATED	CATALOG #	CATALOG #	CATALOG #	PRICE
		4A	4B	4C	
C6:0	METHYL CAPROATE	20	5	35	\$55.00 EACH
C8:0	METHYL CAPRYLATE	20	15	25	
C10:0	METHYL CAPRATE	20	20	20	
C12:0	METHYL LAURATE	20	25	15	
C14:0	METHYL MYRISTATE	20	35	5	
		5A	5B	5C	
C8:0	METHYL CAPRYLATE	20	5	35	\$55.00 EACH
C10:0	METHYL CAPRATE	20	15	25	
C12:0	METHYL LAURATE	20	20	20	
C14:0	METHYL MYRISTATE	20	25	15	
C16:0	METHYL PALMITATE	20	35	5	
		6A	6B	6C	
C16:0	METHYL PALMITATE	25	10	45	\$55.00 EACH
C18:0	METHYL STEARATE	25	20	25	
C20:0	METHYL ARACHIDATE	25	25	20	
C22:0	METHYL BEHENATE	25	45	10	
		06A	06B	06C	
C16:0	METHYL PALMITATE	20	5	35	\$55.00 EACH
C18:0	METHYL STEARATE	20	15	25	
C20:0	METHYL ARACHIDATE	20	20	20	
C22:0	METHYL BEHENATE	20	25	15	
C24:0	METHYL LIGNOCERATE	20	35	5	
		7A	7B	7C	
C16:1	METHYL PALMITOLEATE	20	5	35	\$55.00 EACH
C18:1	METHYL OLEATE	20	15	25	
C20:1	METHYL 11-EICOSENOATE	20	20	20	
C22:1	METHYL ERUCATE	20	25	15	
C24:1	METHYL NERVONATE	20	35	5	
		8A	8B	8C	
C20:0	METHYL ARACHIDATE	25	10	45	\$55.00 EACH
C20:1	METHYL 11-EICOSENOATE	25	20	25	
C20:2	METHYL EICOSADIENOATE	25	25	20	
C20:3	METHYL EICOSATRIENOATE	25	45	10	
		08A	08B	08C	
C20:0	METHYL EICOSANOATE	20	5	35	\$55.00 EACH
C20:1	METHYL 11-EICOSENOATE	20	15	25	
C20:2	METHYL EICOSADIENOATE	20	20	20	
C20:3	METHYL HOMO GAMMA LINOLENATE	20	25	15	
C20:4	METHYL ARACHIDONATE	20	35	5	
		9A	9B	9C	
C6:0	METHYL HEXANOATE	20	5	35	\$55.00 EACH
C7:0	METHYL HEPTANOATE	20	15	25	
C8:0	METHYL OCTANOATE	20	20	20	
C9:0	METHYL NONANOATE	20	25	15	
C10:0	METHYL DECANOATE	20	35	5	
		10A	10B	10C	
C11:0	METHYL UNDECANOATE	20	5	35	\$55.00 EACH
C12:0	METHYL LAURATE	20	15	25	
C13:0	METHYL TRIDECANOATE	20	20	20	
C14:0	METHYL MYRISTATE	20	25	15	
C15:0	METHYL PENTADECANOATE	20	35	5	

C INDICATES CHAIN LENGTH

GLC MODEL MIXTURE REFERENCE STANDARDS (Continued)

CHAIN	ITEM % BY WT. AS INDICATED	CATALOG #	CATALOG #	CATALOG #	PRICE
		11A	11B	11C	
C16:0	METHYL PALMITATE	20	5	35	\$55.00 EACH
C17:0	METHYL HEPTADECANOATE	20	15	25	
C18:0	METHYL STEARATE	20	20	20	
C19:0	METHYL NONADECANOATE	20	25	15	
C20:0	METHYL ARACHIDATE	20	35	5	
		12A	12B	12C	
C18:0	METHYL STEARATE	20	5	35	55.00 EACH
C19:0	METHYL NONADECANOATE	20	15	25	
C20:0	METHYL ARACHIDATE	20	20	20	
C21:0	METHYL HENEICOSANOATE	20	25	15	
C22:0	METHYL BEHENATE	20	35	5	
		13A	13B	13C	
C7:0	METHYL HEPTANOATE	20	5	35	\$55.00 EACH
C9:0	METHYL NONANOATE	20	15	25	
C11:0	METHYL UNDECANOATE	20	20	20	
C13:0	METHYL TRIDECANOATE	20	25	15	
C15:0	METHYL PENTADECANOATE	20	35	5	
		14A	14B	14C	
C13:0	METHYL TRIDECANOATE	20	5	35	\$55.00 EACH
C15:0	METHYL PENTADECANOATE	20	15	25	
C17:0	METHYL HEPTADECANOATE	20	20	20	
C19:0	METHYL NONADECANOATE	20	25	15	
C21:0	METHYL HENEICOSANOATE	20	35	5	
		XA	XB	XC	
C16:0	METHYL PALMITATE	20	5	35	\$55.00 EACH
C16:1	METHYL PALMITOLEATE	20	15	25	
C18:0	METHYL STEARATE	20	20	20	
C18:1	METHYL OLEATE	20	25	15	
C18:2	METHYL LINOLEATE	20	35	5	
		1XA	1XB	1XC	
C12:0	METHYL LAURATE	20	5	35	\$55.00 EACH
C14:0	METHYL MYRISTATE	20	15	25	
C14:1	METHYL MYRISTOLEATE	20	20	20	
C16:0	METHYL PALMITATE	20	25	15	
C16:1	METHYL PALMITOLEATE	20	35	5	

C INDICATES CHAIN LENGTH

**ALL ABOVE STANDARDS ALSO AVAILABLE AS FREE ACIDS.
A SETUP FEE MAY APPLY.**

GLC REFERENCE MIXTURES
Also Available As Free Acids. Please Specify.
Prepared as a quantitative aid in analyzing oils
(AOCS-tentative method CE 1-62)

PRICE ON ALL AOCS STANDARDS: \$55.00/100MG

CHAIN	ITEM	CATALOG #	% BY WT.	SUITABLE OIL
C16:0	METHYL PALMITATE	15A	6.0	CORN, POPPY SEED,
C18:0	METHYL STEARATE		3.0	COTTON SEED,
C18:1	METHYL OLEATE		35.0	SOYBEAN, WALNUT,
C18:2	METHYL LINOLEATE		50.0	SAFFLOWER, RAPOK,
C18:3	METHYL ALPHA LINOLENATE		3.0	SUNFLOWER, RICE
C20:0	METHYL ARACHIDATE		3.0	BRAN, SESAME
C16:0	METHYL PALMITATE	16A	7.0	LINSEED,
C18:0	METHYL STEARATE		5.0	PERILLA,
C18:1	METHYL OLEATE		18.0	HEMPSEED,
C18:2	METHYL LINOLEATE		36.0	RUBBERSEED
C18:3	METHYL ALPHA LINOLENATE		34.0	
C14:0	METHYL MYRISTATE	17A	1.0	PEANUT,
C16:0	METHYL PALMITATE		4.0	RAPESEED,
C18:0	METHYL STEARATE		3.0	MUSTARDSEED
C18:1	METHYL OLEATE		45.0	
C18:2	METHYL LINOLEATE		15.0	
C18:3	METHYL ALPHA LINOLENATE		3.0	
C20:0	METHYL ARACHIDATE		3.0	
C22:0	METHYL BEHENATE		3.0	
C22:1	METHYL ERUCATE		20.0	
C24:0	METHYL LIGNOCERATE		3.0	
C16:0	METHYL PALMITATE	18A	11.0	OLIVE,
C18:0	METHYL STEARATE		3.0	TEASEED,
C18:1	METHYL OLEATE		80.0	NEATSFOOT
C18:2	METHYL LINOLEATE		6.0	
C8:0	METHYL CAPRYLATE	19A	7.0	COCONUT,
C10:0	METHYL CAPRATE		5.0	PALM KERNEL,
C12:0	METHYL LAURATE		48.0	BABASSU,
C14:0	METHYL MYRISTATE		15.0	OURI-CURI
C16:0	METHYL PALMITATE		7.0	
C18:0	METHYL STEARATE		3.0	
C18:1	METHYL OLEATE		12.0	
C18:2	METHYL LINOLEATE		3.0	
C14:0	METHYL MYRISTATE	20A	2.0	LARD,
C16:0	METHYL PALMITATE		30.0	BEEF TALLOW,
C16:1	METHYL PALMITOLEATE		3.0	MUTTON TALLOW,
C18:0	METHYL STEARATE		14.0	PALM
C18:1	METHYL OLEATE		41.0	
C18:2	METHYL LINOLEATE		7.0	
C18:3	METHYL ALPHA LINOLENATE		3.0	

GLC REFERENCE STANDARDS

Also Available As Free Acids. Please Specify.

(Originally composed for National Institutes of Health, according to Horning, Ahrens, Lipsky, Mattson, Mead, Turner and Goldwater: J. Lipid Res. 5, 20-27, 1964.)

PRICE ON ALL NIH STANDARDS: \$55.00/100MG

CHAIN	ITEM	NIH CATALOG #	% BY WT.
C14:0	METHYL MYRISTATE	A	25.0
C16:0	METHYL PALMITATE		10.0
C18:0	METHYL STEARATE		65.0
C14:0	METHYL MYRISTATE	B	4.0
C16:0	METHYL PALMITATE		40.0
C18:0	METHYL STEARATE		56.0
C8:0	METHYL CAPRYLATE	C	1.5
C10:0	METHYL CAPRATE		3.0
C12:0	METHYL LAURATE		6.0
C14:0	METHYL MYRISTATE		12.0
C16:0	METHYL PALMITATE		19.4
C18:0	METHYL STEARATE		24.9
C20:0	METHYL ARACHIDATE		33.2
C14:0	METHYL MYRISTATE	D	11.8
C16:0	METHYL PALMITATE		23.6
C16:1	METHYL PALMITOLEATE		6.9
C18:0	METHYL STEARATE		13.1
C18:1	METHYL OLEATE		44.6
C8:0	METHYL CAPRYLATE	E	6.3
C10:0	METHYL CAPRATE		9.1
C12:0	METHYL LAURATE		12.1
C14:0	METHYL MYRISTATE		23.3
C16:0	METHYL PALMITATE		49.2
C14:0	METHYL MYRISTATE	F	2.5
C16:0	METHYL PALMITATE		4.2
C18:0	METHYL STEARATE		7.3
C20:0	METHYL ARACHIDATE		13.6
C22:0	METHYL BEHENATE		25.4
C24:0	METHYL LIGNOCERATE		47.0

C INDICATES CHAIN LENGTH

GLC REFERENCE STANDARDS

Alcohol Series

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C14:0	MYRISTYL ALCOHOL	25A	1.0	\$55.00 EACH
C16:0	PALAMITYL ALCOHOL		98.0	
C18:0	STEARYL ALCOHOL		1.0	
C12:0	LAURYL ALCOHOL	26A	20.0	\$55.00 EACH
C14:0	MYRISTYL ALCOHOL		20.0	
C16:0	PALMITYL ALCOHOL		20.0	
C18:0	STEARYL ALCOHOL		20.0	
C18:1	OLEYL ALCOHOL		20.0	

GLC REFERENCE STANDARDS

Alcohol Series

% BY WT. AS INDICATED					
CHAIN	ITEM	CATALOG #	CATALOG #	CATALOG #	PRICE/100MG
		29A	29B	29C	
C6:0	HEXANOL	20	5	35	\$55.00 EACH
C7:0	HEPTANOL	20	15	25	
C8:0	OCTANOL	20	20	20	
C9:0	NONANOL	20	25	15	
C10:0	DECANOL	20	35	5	
		30A	30B	30C	
C6:0	HEXANOL	20	5	35	\$55.00 EACH
C8:0	OCTANOL	20	15	25	
C10:0	DECANOL	20	20	20	
C12:0	DODECANOL	20	25	15	
C14:0	TETRADECANOL	20	35	5	
		31A	31B	31C	
C10:0	DECANOL	20	5	35	\$55.00 EACH
C11:0	UNDECANOL	20	15	25	
C12:0	DODECANOL	20	20	20	
C13:0	TRIDECANOL	20	25	15	
C14:0	TETRADECANOL	20	35	5	
		32A	32B	32C	
C16:0	HEXADECANOL	20	5	35	\$55.00 EACH
C18:0	OCTADECANOL	20	15	25	
C20:0	EICOSANOL	20	20	20	
C22:0	DOCOSANOL	20	25	15	
C24:0	TETRACOSANOL	20	35	5	
		33A	33B	33C	
C17:0	HEPTADECANOL	20	5	35	\$55.00 EACH
C18:0	OCTADECANOL	20	15	25	
C19:0	NONADECANOL	20	20	20	
C20:0	EICOSANOL	20	25	15	
C21:0	HENEICOSANOL	20	35	5	
		34A	34B	34C	
C16:1	HEXADECENOL	20	5	35	\$55.00 EACH
C18:1	OCTADECENOL	20	15	25	
C20:1	EICOSENOL	20	20	20	
C22:1	DOCOSENOL	20	25	15	
C24:1	TETRACOSENOL	20	35	5	
		35A	35B	35C	
C16:0	PALMITYL ALCOHOL	20	5	35	\$55.00 EACH
C18:0	STEARYL ALCOHOL	20	15	25	
C18:1	OLEYL ALCOHOL	20	20	20	
C18:2	LINOLEYL ALCOHOL	20	25	15	
C18:3	ALPHA LINOLENYL ALCOHOL	20	35	5	
		36A	36B	36C	
C20:0	ARACHIDYL ALCOHOL	20	5	35	\$55.00 EACH
C20:1	EICOSENYL ALCOHOL	20	15	25	
C20:2	EICOSADIENYL ALCOHOL	20	20	20	
C20:3	EICOSATRIENYL ALCOHOL	20	25	15	
C20:4	ARACHIDONYL ALCOHOL	20	35	5	

C INDICATES CHAIN LENGTH

GLC REFERENCE STANDARDS

Acetate Series

CHAIN	ITEM	% BY WT. AS INDICATED			PRICE/100MG
		CATALOG #	CATALOG #	CATALOG #	
		41A	41B	41C	
C16:0	PALMITYL ACETATE	20	5	35	\$55.00 EACH
C18:0	STEARYL ACETATE	20	15	25	
C20:0	ARACHIDYL ACETATE	20	20	20	
C22:0	BEHENYL ACETATE	20	25	15	
C24:0	LIGNOCERYL ACETATE	20	35	5	
		43A	43B	43C	
C11:0	UNDECYL ACETATE	20	5	35	\$55.00 EACH
C12:0	LAURYL ACETATE	20	15	25	
C13:0	TRIDECYL ACETATE	20	20	20	
C14:0	MYRISTYL ACETATE	20	25	15	
C15:0	PENTADECYL ACETATE	20	35	5	
		44A	44B	44C	
C16:0	PALMITYL ACETATE	20	5	35	\$55.00 EACH
C17:0	HEPTADECYL ACETATE	20	15	25	
C18:0	STEARYL ACETATE	20	20	20	
C19:0	NONADECYL ACETATE	20	25	15	
C20:0	ARACHIDYL ACETATE	20	35	5	
		45A	45B	45C	
C18:0	STEARYL ACETATE	20	5	35	\$55.00 EACH
C19:0	NONADECYL ACETATE	20	15	25	
C20:0	ARACHIDYL ACETATE	20	20	20	
C21:0	HENEICOSYL ACETATE	20	25	15	
C22:0	BEHENYL ACETATE	20	35	5	
		46A	46B	46C	
C16:0	PALMITYL ACETATE	20	5	35	\$55.00 EACH
C18:0	STEARYL ACETATE	20	15	25	
C18:1	OLEYL ACETATE	20	20	20	
C18:2	LINOLEYL ACETATE	20	25	15	
C18:3	ALPHA LINOLENYL ACETATE	20	35	5	
		47A	47B	47C	
C18:0	STEARYL ACETATE	20	5	35	\$55.00 EACH
C18:1	OLEYL ACETATE	20	15	25	
C18:2	LINOLEYL ACETATE	20	20	20	
C18:3	ALPHA LINOLENYL ACETATE	20	25	15	
C20:4	ARACHIDONYL ACETATE	20	35	5	

C INDICATES CHAIN LENGTH

GLC REFERENCE STANDARDS TRIGLYCERIDE SERIES

CHAIN	ITEM	% BY WT. AS INDICATED			PRICE/100MG
		CATALOG #	CATALOG #	CATALOG #	
		51A	51B	51C	
C10:0	TRICAPRIN	20	5	35	\$55.00 EACH
C12:0	TRILAURIN	20	15	25	
C14:0	TRIMYRISTIN	20	20	20	
C16:0	TRIPALMITIN	20	25	15	
C18:0	TRISTEARIN	20	35	5	
		52A	52B	52C	
C14:0	TRIMYRISTIN	20	5	35	\$55.00 EACH
C16:0	TRIPALMITIN	20	15	25	
C18:0	TRISTEARIN	20	20	20	
C20:0	TRIARACHIDIN	20	25	15	
C22:0	TRIBEHENIN	20	35	5	
		53A	53B	53C	
C16:1	TRIPALMITOLEIN	25	10	40	\$65.00 EACH
C18:1	TRIOLEIN	25	20	30	
C20:1	TRI-11-EICOSENOIN	25	30	20	
C22:1	TRIERUCIN	25	40	10	
		54A	54B	54C	
C16:0	TRIPALMITIN	20	5	35	\$60.00 EACH
C16:1	TRIPALMITOLEIN	20	15	25	
C18:0	TRISTEARIN	20	20	20	
C18:1	TRIOLEIN	20	25	15	
C18:2	TRILINOLEIN	20	35	5	

GLC REFERENCE STANDARDS

All of the following are available as free acids or methyl esters.
A setup fee may apply.

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C14:0	METHYL MYRISTATE		0.5	
C16:0	METHYL PALMITATE		6.0	
C18:0	METHYL STEARATE		3.0	
C18:1	METHYL OLEATE	GLC 15A' (PRIME)	35.0	\$55.00
C18:2	METHYL LINOLEATE		49.5	
C18:3	METHYL ALPHA LINOLENATE		3.0	
C20:0	METHYL ARACHIDATE		3.0	
C16:0	METHYL PALMITATE		6.0	
C18:0	METHYL STEARATE		3.0	
C18:1	METHYL OLEATE	GLC 15AA' (PRIME)	35.0	\$60.00
C18:2	METHYL LINOLEATE		50.0	
C18:3	METHYL ALPHA LINOLENATE		3.0	
C20:4	METHYL ARACHIDONATE		3.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C8:0	METHYL OCTANOATE		2.0	
C10:0	METHYL DECANOATE		3.0	
C12:0	METHYL LAURATE		4.0	
C14:0	METHYL MYRISTATE		8.0	
C16:0	METHYL PALMITATE		10.0	
C18:0	METHYL STEARATE		7.0	
C18:1	METHYL OLEATE	GLC 17A' (PRIME)	8.0	\$70.00
C18:2	METHYL LINOLEATE		8.0	
C18:3	METHYL ALPHA LINOLENATE		10.0	
C20:0	METHYL ARACHIDATE		8.0	
C22:0	METHYL BEHENATE		10.0	
C22:1	METHYL ERUCATE		10.0	
C24:0	METHYL LIGNOCERATE		12.0	
C8:0	METHYL OCTANOATE		2.0	
C10:0	METHYL DECANOATE		3.0	
C12:0	METHYL LAURATE		4.0	
C14:0	METHYL MYRISTATE		4.0	
C16:0	METHYL PALMITATE		10.0	
C16:1	METHYL PALMITOLEATE		1.0	
C17:0	METHYL HEPTADECANOATE		1.0	
C18:0	METHYL STEARATE	GLC 17AA' (PRIME)	8.0	\$70.00
C18:1	METHYL OLEATE		10.0	
C18:2	METHYL LINOLEATE		10.0	
C18:3	METHYL ALPHA LINOLENATE		10.0	
C20:0	METHYL ARACHIDATE		5.0	
C22:0	METHYL BEHENATE		10.0	
C22:1	METHYL ERUCATE		10.0	
C24:0	METHYL LIGNOCERATE		12.0	
C16:0	METHYL PALMITATE		10.0	REPRESENTATIVE OF PEANUT OIL
C18:0	METHYL STEARATE		3.0	
C18:1	METHYL OLEATE		50.0	
C18:2	METHYL LINOLEATE		30.0	
C20:0	METHYL ARACHIDATE	GLC 21A	1.5	\$60.00
C20:1	METHYL 11-EICOSENOATE		1.5	
C22:0	METHYL BEHENATE		3.0	
C24:0	METHYL LIGNOCERATE		1.0	
C4:0	METHYL BUTYRATE		4.0	
C6:0	METHYL CAPROATE		2.0	
C8:0	METHYL CAPRYLATE		1.0	
C10:0	METHYL CAPRATE		3.0	
C12:0	METHYL LAURATE		4.0	
C14:0	METHYL MYRISTATE		10.0	
C14:1	METHYL MYRISTOLEATE	GLC-60	2.0	\$70.00
C16:0	METHYL PALMITATE		25.0	
C16:1	METHYL PALMITOLEATE		5.0	
C18:0	METHYL STEARATE		10.0	
C18:1	METHYL OLEATE		25.0	
C18:2	METHYL LINOLEATE		3.0	
C18:3	METHYL ALPHA LINOLENATE		4.0	
C20:0	METHYL ARACHIDATE		2.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C4:0	METHYL BUTYRATE		2.70	
C6:0	METHYL HEXANOATE		2.70	
C8:0	METHYL OCTANOATE		2.70	
C10:0	METHYL DECANOATE		2.70	
C11:0	METHYL UNDECANOATE		2.70	
C12:0	METHYL LAURATE		2.70	
C13:0	METHYL TRIDECANOATE		2.70	
C14:0	METHYL MYRISTATE		2.70	
C14:1	METHYL MYRISTOLEATE		2.70	
C15:0	METHYL PENTADECANOATE		2.70	
C15:1	METHYL 10-PENTADECENOATE		2.70	
C16:0	METHYL PALMITATE		5.40	
C16:1	METHYL PALMITOLEATE		2.70	
C17:0	METHYL HEPTADECANOATE		2.70	
C17:1	METHYL 10-HEPTADECENOATE		2.70	
C18:0	METHYL STEARATE		2.70	
C18:1	METHYL OLEATE		2.70	
C18:1T	METHYL ELAIDATE	GLC 36	2.70	\$155.00
C18:2	METHYL LINOLEATE		2.70	
C18:2T	METHYL LINOELAIDATE		2.70	
C18:3	METHYL LINOLENATE		2.70	
C18:3	METHYL GAMMA LINOLENATE		2.70	
C20:0	METHYL ARACHIDATE		2.70	
C20:1	METHYL 11-EICOSENOATE		2.70	
C21:0	METHYL HENEICOSANOATE		2.70	
C20:2	METHYL 11-14 EICOSADIENOATE		2.70	
C22:0	METHYL BEHENATE		2.70	
C22:1	METHYL ERUCATE		2.70	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		2.70	
C20:3	METHYL HOMOGAMMA LINOLENATE		2.70	
C20:4	METHYL ARACHIDONATE		2.70	
C22:2	METHYL DOCOSADIENOATE		2.70	
C24:0	METHYL LIGNOCERATE		2.70	
C20:5	METHYL EICOSAPENTAENOATE		2.70	
C24:1	METHYL NERVONATE		2.70	
C22:6	METHYL DOCOSAHEXAENOATE		2.70	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.			PRICE/100MG
			37	37-A	37-B	
C4:0	METHYL BUTYRATE		2.63	4.0	2.70	
C6:0	METHYL HEXANOATE		2.63	4.0	2.70	
C8:0	METHYL OCTANOATE		2.63	4.0	2.70	
C10:0	METHYL DECANOATE		2.63	4.0	2.70	
C11:0	METHYL UNDECANOATE		2.63	2.0	2.70	
C12:0	METHYL LAURATE		2.63	4.0	2.70	
C13:0	METHYL TRIDECANOATE		2.63	2.0	2.70	
C14:0	METHYL MYRISTATE		2.63	4.0	2.70	
C14:1	METHYL MYRISTOLEATE		2.63	2.0	2.70	
C15:0	METHYL PENTADECANOATE		2.63	2.0	2.70	
C15:1	METHYL 10-PENTADECENOATE		2.63	2.0	2.70	
C16:0	METHYL PALMITATE		5.26	6.0	2.70	
C16:1	METHYL PALMITOLEATE		2.63	2.0	2.70	
C17:0	METHYL HEPTADECANOATE		2.63	2.0	2.70	
C17:1	METHYL 10-HEPTADECENOATE		2.63	2.0	2.70	
C18:0	METHYL STEARATE		2.63	4.0	2.70	
C18:1	METHYL OLEATE		2.63	4.0	2.70	
C18:1T	METHYL ELAIDATE	GLC 37	2.63	2.0	2.70	\$155.00
C18:2	METHYL LINOLEATE		2.63	2.0	2.70	
C18:2T	METHYL LINOELAIDATE		2.63	2.0	2.70	
C18:3	METHYL LINOLENATE		2.63	2.0	2.70	
C18:3	METHYL GAMMA LINOLENATE		2.63	2.0	2.70	
C20:0	METHYL ARACHIDATE		2.63	4.0	2.70	
C20:1	METHYL 11-EICOSENOATE		2.63	2.0	2.70	
C21:0	METHYL HENEICOSANOATE		2.63	2.0	2.70	
C20:2	METHYL 11-14 EICOSADIENOATE		2.63	2.0	2.70	
C22:0	METHYL BEHENATE		2.63	4.0	2.70	
C22:1	METHYL ERUCATE		2.63	2.0	2.70	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		2.63	2.0	2.70	
C20:3	METHYL HOMOGAMMA LINOLENATE		2.63	2.0	2.70	
C20:4	METHYL ARACHIDONATE		2.63	2.0	2.70	
C23:0	METHYL TRICOSANOATE		2.63	2.0	2.70	
C22:2	METHYL DOCOSADIENOATE		2.63	2.0	2.70	
C24:0	METHYL LIGNOCERATE		2.63	4.0	2.70	
C20:5	METHYL EICOSAPENTAENOATE		2.63	2.0	2.70	
C24:1	METHYL NERVONATE		2.63	2.0	2.70	
C22:6	METHYL DOCOSAHEXAENOATE		2.63	2.0	2.70	
C16:0	METHYL PALMITATE		20.0			
C18:0	METHYL STEARATE		20.0			
C18:1	METHYL OLEATE	GLC-61	20.0			\$65.00
C18:2	METHYL LINOLEATE		20.0			
C20:4	METHYL ARACHIDONATE		20.0			
C16:0	METHYL PALMITATE		4.0			
C18:0	METHYL STEARATE		1.0			
C18:1	METHYL OLEATE		58.0			
C18:2	METHYL LINOLEATE		20.0			
C18:3	METHYL ALPHA LINOLENATE	GLC-62	10.0			\$65.00
C20:0	METHYL ARACHIDATE		1.0			
C20:1	METHYL EICOSENOATE		2.0			
C22:0	METHYL BEHENATE		1.0			
C22:1	METHYL ERUCATE		2.0			
C24:0	METHYL LIGNOCERATE		1.0			

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.		PRICE/100MG
			63A	63B	
C12:0	METHYL LAURATE	GLC-63	2.0	9.1	\$65.00 EACH
C14:0	METHYL MYRISTATE		2.0	9.1	
C14:1	METHYL MYRISTOLEATE		1.0	9.1	
C16:0	METHYL PALMITATE		22.0	9.1	
C16:1	METHYL PALMITOLEATE		5.0	9.1	
C17:0	METHYL HEPTADECANOATE		10.0	9.1	
C18:0	METHYL STEARATE		10.0	9.1	
C18:1	METHYL OLEATE		32.0	9.1	
C18:2	METHYL LINOLEATE		8.0	9.1	
C18:3	METHYL ALPHA LINOLENATE		4.0	9.1	
C20:4	METHYL ARACHIDONATE		4.0	9.1	
C12:0	METHYL LAURATE	GLC-63C	3.0		Representative of PLASMA \$75.00
C14:0	METHYL MYRISTATE		3.0		
C14:1	METHYL MYRISTOLEATE		3.0		
C16:0	METHYL PALMITATE		26.0		
C16:1	METHYL PALMITOLEATE		2.0		
C17:0	METHYL HEPTADECANOATE		1.0		
C18:0	METHYL STEARATE		10.0		
C18:1	METHYL OLEATE		2.0		
C18:2	METHYL LINOLEATE		20.0		
C18:3	METHYL LINOLENATE		2.0		
C18:3	METHYL GAMMA LINOLENATE		2.0		
C20:4	METHYL ARACHIDONATE		2.0		
C20:5	METHYL EICOSAPENTAENOATE		2.0		
C22:6	METHYL DOCOSAHEXAENOATE		2.0		
C16:0	METHYL PALMITATE	GLC-64		10.0	\$55.00
C18:0	METHYL STEARATE			5.0	
C18:1	METHYL OLEATE			30.0	
C18:2	METHYL LINOLEATE			50.0	
C18:3	METHYL ALPHA LINOLENATE			5.0	
C14:0	METHYL MYRISTATE	GLC-65		12.5	\$60.00
C16:0	METHYL PALMITATE			12.5	
C16:1	METHYL PALMITOLEATE			12.5	
C18:0	METHYL STEARATE			12.5	
C18:1	METHYL OLEATE			12.5	
C18:2	METHYL LINOLEATE			12.5	
C18:3	METHYL ALPHA LINOLENATE			12.5	
C20:0	METHYL ARACHIDATE			12.5	
			66A	66B	
C16:0	METHYL PALMITATE	GLC-66	35.0	10.0	\$55.00 EACH
C16:1	METHYL PALMITOLEATE		—	10.0	
C18:0	METHYL STEARATE		33.7	—	
C18:1	METHYL OLEATE		30.0	75.0	
C18:2	METHYL LINOLEATE		0.8	4.0	
C18:3	METHYL ALPHA LINOLENATE		0.5	1.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.		PRICE/100MG			
C14:0	METHYL MYRISTATE	GLC-67	1.0		\$60.00			
C16:0	METHYL PALMITATE		10.0					
C18:0	METHYL STEARATE		6.0					
C18:1	METHYL OLEATE		25.0					
C18:1T	METHYL ELAIDATE		20.0					
C18:2	METHYL LINOLEATE		34.0					
C18:2TT	METHYL LINOELAIDATE		2.0					
C18:3	METHYL ALPHA LINOLENATE		1.0					
C20:0	METHYL ARACHIDATE	GLC-68 \$75.00 EACH	0.5					
C22:0	METHYL BEHENATE		0.5					
C8:0	METHYL OCTANOATE		A	B	C	D	E	F
C10:0	METHYL DECANOATE		—	—	2.0	—	—	—
C12:0	METHYL LAURATE		—	—	4.0	—	—	—
C14:0	METHYL MYRISTATE		5.0	3.0	3.0	6.0	4.0	6.0
C14:1	METHYL MYRISTOLEATE		5.0	1.0	1.0	1.0	1.0	1.0
C16:0	METHYL PALMITATE		10.0	10.0	10.0	16.0	18.0	15.0
C16:1	METHYL PALMITOLEATE		5.0	2.0	2.0	5.0	5.0	8.0
C18:0	METHYL STEARATE		5.0	15.0	15.0	8.0	6.0	3.0
C18:1	METHYL OLEATE		5.0	25.0	16.0	13.0	12.0	10.0
C18:1	METHYL VACCENATE		—	—	—	4.0	2.0	3.0
C18:2	METHYL LINOLEATE		5.0	10.0	10.0	2.0	2.0	2.0
C18:3	METHYL ALPHA LINOLENATE		5.0	4.0	4.0	2.0	1.0	1.0
C20:0	METHYL ARACHIDATE		5.0	2.0	2.0	1.0	1.0	—
C20:1	METHYL 11-EICOSENOATE		5.0	2.0	2.0	9.0	4.0	14.0
C20:2	METHYL 11-14-EICOSADIENOATE		5.0	2.0	2.0	1.0	1.0	1.0
C20:3	METHYL HOMOGAMMA LINOLENATE		5.0	4.0	4.0	—	—	—
C20:4	METHYL ARACHIDONATE		5.0	4.0	4.0	3.0	2.0	1.0
C20:3	METHYL 11-14-17-EICOSATRIENOATE		5.0	—	—	1.0	1.0	1.0
C20:5	METHYL EICOSAPENTAENOATE		—	—	—	10.0	7.0	19.0
C22:0	METHYL BEHENATE		5.0	4.0	4.0	1.0	1.0	—
C22:1	METHYL ERUCATE		5.0	2.0	2.0	3.0	2.0	1.0
C22:6	METHYL DOCOSAHEXAENOATE		5.0	4.0	4.0	12.0	28.0	13.0
C24:0	METHYL LIGNOCERATE		5.0	2.0	2.0	1.0	1.0	—
C24:1	METHYL NERVONATE		5.0	4.0	4.0	1.0	1.0	1.0
C14:0	METHYL MYRISTATE		GLC-69	2.0		\$55.00		
C16:0	METHYL PALMITATE	88.0						
C16:1	METHYL PALMITOLEATE	2.0						
C18:1	METHYL OLEATE	2.0						
C18:2	METHYL LINOLEATE	6.0		\$60.00				
C16:0	METHYL PALMITATE	GLC-70	2.0					
C18:0	METHYL STEARATE	5.0						
C18:1	METHYL OLEATE	25.0						
C18:2	METHYL LINOLEATE	63.0						
C18:3	METHYL ALPHA LINOLENATE	5.0		\$55.00				
C16:0	METHYL PALMITATE	GLC-71	2.0					
C18:0	METHYL STEARATE	1.0						
C18:1	METHYL OLEATE	85.0						
C18:2	METHYL LINOLEATE	12.0		\$60.00				
C16:0	METHYL PALMITATE	GLC-72	6.0					
C18:0	METHYL STEARATE	4.0						
C18:1	METHYL OLEATE	18.7						
C18:2	METHYL LINOLEATE	70.0						
C18:3	METHYL ALPHA LINOLENATE	0.3						
C22:0	METHYL BEHENATE	1.0						

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C4:0	METHYL BUTYRATE		4.0	
C6:0	METHYL HEXANOATE		3.0	
C8:0	METHYL OCTANOATE		2.0	
C10:0	METHYL DECANOATE		3.0	
C12:0	METHYL LAURATE		3.0	\$65.00
C14:0	METHYL MYRISTATE	GLC-73	12.0	
C16:0	METHYL PALMITATE		30.0	
C18:0	METHYL STEARATE		10.0	
C18:1	METHYL OLEATE		30.0	
C18:2	METHYL LINOLEATE		2.0	
C18:3	METHYL ALPHA LINOLENATE		1.0	
C4:0	METHYL BUTYRATE		7.7	
C6:0	METHYL HEXANOATE		7.7	
C8:0	METHYL OCTANOATE		7.7	
C10:0	METHYL DECANOATE		7.7	
C12:0	METHYL LAURATE		7.7	
C14:0	METHYL MYRISTATE		7.7	\$65.00
C16:0	METHYL PALMITATE	GLC-74	7.7	
C18:0	METHYL STEARATE		7.7	
C18:1	METHYL OLEATE		7.7	
C18:2	METHYL LINOLEATE		7.7	
C18:3	METHYL ALPHA LINOLENATE		7.7	
C20:0	METHYL ARACHIDATE		7.7	
C22:0	METHYL BEHENATE		7.7	
C8:0	METHYL OCTANOATE		6.66	
C10:0	METHYL DECANOATE		6.66	
C12:0	METHYL LAURATE		6.66	
C13:0	METHYL TRIDECANOATE		6.66	
C14:0	METHYL MYRISTATE		6.66	
C15:0	METHYL PENTADECANOATE		6.66	\$70.00
C16:0	METHYL PALMITATE		6.66	
C16:1	METHYL PALMITOLEATE	GLC-74X	6.66	
C17:0	METHYL HEPTADECANOATE		6.66	
C18:0	METHYL STEARATE		6.66	
C18:1	METHYL OLEATE		6.66	
C18:2	METHYL LINOLEATE		6.66	
C18:3	METHYL ALPHA LINOLENATE		6.66	
C20:0	METHYL EICOSANOATE		6.66	
C22:0	METHYL BEHENATE		6.66	
C16:0	METHYL PALMITATE		6.0	REPRESENTATIVE OF
C18:0	METHYL STEARATE		4.0	SUNFLOWER OIL
C18:1	METHYL OLEATE		20.0	
C18:2	METHYL LINOLEATE		68.0	
C18:3	METHYL ALPHA LINOLENATE	GLC-75	0.2	\$60.00
C20:0	METHYL ARACHIDATE		0.4	
C20:1	METHYL EICOSENOATE		0.2	
C22:0	METHYL BEHENATE		0.9	
C24:0	METHYL LIGNOCERATE		0.3	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C8:0	METHYL OCTANOATE		3.0	
C10:0	METHYL DECANOATE		3.0	
C12:0	METHYL LAURATE		10.0	
C13:0	METHYL TRIDECANOATE		1.0	
C14:0	METHYL MYRISTATE		10.0	
C15:0	METHYL PENTADECANOATE		1.0	
C16:0	METHYL PALMITATE	GLC-76	12.0	\$60.00
C16:1	METHYL PALMITOLEATE		4.0	
C17:0	METHYL HEPTADECANOATE		2.0	
C18:0	METHYL STEARATE		12.0	
C18:1	METHYL OLEATE		12.0	
C18:2	METHYL LINOLEATE		10.0	
C18:3	METHYL ALPHA LINOLENATE		10.0	
C20:0	METHYL EICOSANOATE		10.0	
C12:0	METHYL LAURATE		5.0	
C14:0	METHYL MYRISTATE		10.0	
C16:0	METHYL PALMITATE	GLC-77	15.0	\$55.00
C18:0	METHYL STEARATE		20.0	
C18:1	METHYL OLEATE		30.0	
C18:2	METHYL LINOLEATE		20.0	
C16:0	METHYL PALMITATE		7.0	
C18:0	METHYL STEARATE		15.0	
C18:1	METHYL OLEATE	GLC-78	26.0	\$60.00
C18:2	METHYL LINOLEATE		45.0	
C18:3	METHYL ALPHA LINOLENATE		5.0	
C20:0	METHYL ARACHIDATE		2.0	
C6:0	METHYL HEXANOATE		1.0	
C8:0	METHYL OCTANOATE		1.0	
C10:0	METHYL DECANOATE		1.0	
C12:0	METHYL LAURATE		8.0	
C14:0	METHYL MYRISTATE		6.0	
C14:1	METHYL MYRISTOLEATE		0.5	
C15:0	METHYL PENTADECANOATE		0.5	
C15:1	METHYL 10-PENTADECENOATE		0.5	
C16:0	METHYL PALMITATE	GLC-79	24.0	\$65.00
C16:1	METHYL PALMITOLEATE		2.0	
C17:0	METHYL HEPTADECANOATE		1.0	
C17:1	METHYL 10-HEPTADECENOATE		0.5	
C18:0	METHYL STEARATE		21.0	
C18:1	METHYL OLEATE		31.0	
C18:2	METHYL LINOLEATE		1.0	
C18:3	METHYL ALPHA LINOLENATE		0.5	
C20:0	METHYL ARACHIDATE		0.5	
C13:1	METHYL 12-TRIDECENOATE		14.3	
C15:1	METHYL 10-PENTADECENOATE		14.3	
C17:1	METHYL 10-HEPTADECENOATE		14.3	
C19:1	METHYL 10-NONADECENOATE	GLC-80	14.3	\$80.00
C19:2	METHYL 10-13-NONADECADIENOATE		14.3	
C21:1	METHYL 12-HENEICOSENOATE		14.3	
C23:1	METHYL 14-TRICOSENOATE		14.3	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C8:0	METHYL OCTANOATE		2.0	
C10:0	METHYL DECANOATE		2.0	
C12:0	METHYL LAURATE		5.0	
C13:0	METHYL TRIDECANOATE		1.0	
C14:0	METHYL MYRISTATE		5.0	
C15:0	METHYL PENTADECANOATE		1.0	
C16:0	METHYL PALMITATE		10.0	
C16:1	METHYL PALMITOLEATE		2.0	\$60.00
C17:0	METHYL HEPTADECANOATE	GLC-81	1.0	
C18:0	METHYL STEARATE		10.0	
C18:1	METHYL OLEATE		10.0	
C18:2	METHYL LINOLEATE		10.0	
C20:0	METHYL ARACHIDATE		5.0	
C20:1	METHYL 11-EICOSENOATE		10.0	
C22:0	METHYL BEHENATE		3.0	
C22:1	METHYL ERUCATE		20.0	
C24:0	METHYL LIGNOCERATE		3.0	
C16:0	METHYL PALMITATE		5.0	
C18:0	METHYL STEARATE		45.0	
C18:1	METHYL OLEATE	GLC-82	38.0	\$60.00
C18:2	METHYL LINOLEATE		2.0	
C18:3	METHYL ALPHA LINOLENATE		10.0	
C14:0	METHYL MYRISTATE		1.0	
C16:0	METHYL PALMITATE		31.0	
C18:0	METHYL STEARATE	GLC-83	32.0	\$55.00
C18:1	METHYL OLEATE		34.0	
C18:2	METHYL LINOLEATE		2.0	
C16:0	METHYL PALMITATE		10.0	
C17:0	METHYL HEPTADECANOATE		5.0	
C18:0	METHYL STEARATE		10.0	
C18:1	METHYL OLEATE		5.0	
C18:2	METHYL LINOLEATE		20.0	\$75.00
C18:3	METHYL ALPHA LINOLENATE	GLC-84	5.0	
C20:0	METHYL ARACHIDATE		10.0	
C20:1	METHYL 11-EICOSENOATE		10.0	
C20:4	METHYL ARACHIDONATE		15.0	
C22:6	METHYL DOCOSAHEXAENOATE		10.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C4:0	METHYL BUTYRATE		3.03	
C6:0	METHYL HEXANOATE		3.03	
C8:0	METHYL OCTANOATE		3.03	
C10:0	METHYL DECANOATE		3.03	
C11:0	METHYL UNDECANOATE		3.03	
C12:0	METHYL LAURATE		3.03	
C13:0	METHYL TRIDECANOATE		3.03	
C14:0	METHYL MYRISTATE		3.03	
C14:1	METHYL MYRISTOLEATE		3.03	
C15:0	METHYL PENTADECANOATE		3.03	
C15:1	METHYL 10-PENTADECENOATE		3.03	
C16:0	METHYL PALMITATE		6.06	
C16:1	METHYL PALMITOLEATE		3.03	
C17:0	METHYL HEPTADECANOATE		3.03	
C17:1	METHYL 10-HEPTADECANOATE		3.03	
C18:0	METHYL STEARATE	GLC-85	3.03	\$120.00
C18:1	METHYL OLEATE		3.03	
C18:1T	METHYL ELAIDATE		3.03	
C18:2	METHYL LINOLEATE		3.03	
C18:3	METHYL ALPHA LINOLENATE		3.03	
C18:3	METHYL GAMMA LINOLENATE		3.03	
C20:0	METHYL EICOSANOATE		3.03	
C20:1	METHYL 11-EICOSENOATE		3.03	
C20:2	METHYL 11-14-EICOSADIENOATE		3.03	
C22:0	METHYL BEHENATE		3.03	
C22:1	METHYL ERUCATE		3.03	
C20:3	METHYL 11-14-17-EICOSATRIENOATE		3.03	
C20:3	METHYL HOMOGAMMA LINOLENATE		3.03	
C20:4	METHYL ARACHIDONATE		3.03	
C24:1	METHYL NERVONATE		3.03	
C22:2	METHYL DOCOSADIENOATE		3.03	
C22:6	METHYL DOCOSAHEXAENOATE		3.03	
C6:0	METHYL HEXANOATE		1.0	
C8:0	METHYL OCTANOATE		5.0	
C10:0	METHYL DECANOATE		4.0	
C12:0	METHYL LAURATE		27.0	
C14:0	METHYL MYRISTATE	GLC-86	10.0	\$65.00
C16:0	METHYL PALMITATE		10.0	
C18:0	METHYL STEARATE		2.0	
C18:1	METHYL OLEATE		15.0	
C18:2	METHYL LINOLEATE		25.0	
C18:3	METHYL ALPHA LINOLENATE		1.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C12:0	METHYL LAURATE		3.0	
C13:0	METHYL TRIDECANOATE		3.0	
C14:0	METHYL MYRISTATE		3.0	
C14:1	METHYL MYRISTOLEATE		0.5	
C15:0	METHYL PENTADECANOATE		3.0	
C16:0	METHYL PALMITATE		18.5	
C16:1T	METHYL PALMITELAIDATE		0.5	
C16:1	METHYL PALMITOLEATE		1.5	
C17:0	METHYL HEPTADECANOATE		1.0	
C18:0	METHYL STEARATE		6.5	
C18:1T	METHYL ELAIDATE		2.0	
C18:1	METHYL OLEATE		16.0	
C18:2TT	METHYL LINOELAIDATE		3.0	
C18:2	METHYL LINOLEATE	GLC-87	23.0	\$120.00
C18:3	METHYL GAMMA LINOLENATE		0.5	
C19:0	METHYL NONADECANOATE		0.5	
C18:3	METHYL ALPHA LINOLENATE		3.0	
C20:0	METHYL EICOSANOATE		0.5	
C20:1	METHYL 11-EICOSENOATE		0.4	
C20:3	METHYL HOMOGAMMA LINOLENATE		1.5	
C20:4	METHYL ARACHIDONATE		5.0	
C20:3	METHYL 11-14-17-EICOSATRIENOATE		0.5	
C22:0	METHYL BEHENATE		1.2	
C22:1	METHYL ERUCATE		0.4	
C22:2	METHYL DOCOSADIENOATE		0.5	
C22:6	METHYL DOCOSAHEXAENOATE		1.0	
C24:1	METHYL NERVONATE		0.5	
C8:0	METHYL OCTANOATE		1.0	
C10:0	METHYL DECANOATE		1.0	
C12:0	METHYL LAURATE		13.0	
C14:0	METHYL MYRISTATE		5.0	\$60.00
C16:0	METHYL PALMITATE	GLC-88	38.0	
C18:0	METHYL STEARATE		4.0	
C18:1	METHYL OLEATE		32.0	
C18:2	METHYL LINOLEATE		6.0	
C16:0	METHYL PALMITATE		5.0	
C18:0	METHYL STEARATE		2.0	
C18:1	METHYL OLEATE	GLC-89	15.0	\$60.00
C18:2	METHYL LINOLEATE		70.0	
C18:3	METHYL GAMMA LINOLENATE		8.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C6:0	METHYL HEXANOATE		1.0	
C8:0	METHYL OCTANOATE		2.0	
C10:0	METHYL DECANOATE		3.0	
C11:0	METHYL UNDECANOATE		4.0	
C12:0	METHYL LAURATE		4.0	
C14:0	METHYL MYRISTATE		5.0	
C14:1	METHYL MYRISTOLEATE		3.0	
C15:0	METHYL PENTADECANOATE		3.0	
C16:0	METHYL PALMITATE		10.0	
C16:1	METHYL PALMITOLEATE		1.0	\$80.00
C17:0	METHYL HEPTADECANOATE	GLC-90	1.0	
C18:0	METHYL STEARATE		8.0	
C18:1	METHYL OLEATE		8.0	
C18:2	METHYL LINOLEATE		10.0	
C18:3	METHYL ALPHA LINOLENATE		5.0	
C20:0	METHYL ARACHIDATE		5.0	
C20:1	METHYL 11-TRANSEICOSENOATE		5.0	
C21:0	METHYL HENEICOSANOATE		5.0	
C22:0	METHYL BEHENATE		6.0	
C22:1	METHYL ERUCATE		6.0	
C24:0	METHYL LIGNOCERATE		5.0	
C14:0	METHYL MYRISTATE		7.69	
C16:0	METHYL PALMITATE		7.69	
C16:1	METHYL PALMITOLEATE		7.69	
C18:0	METHYL STEARATE		7.69	
C18:1	METHYL OLEATE		7.69	
C18:1	METHYL PETROSELINATE		7.69	
C18:2	METHYL LINOLEATE	GLC-91	7.69	\$80.00
C18:3	METHYL ALPHA LINOLENATE		7.69	
C18:3	METHYL GAMMA LINOLENATE		7.69	
C20:3	METHYL EICOSATRIENOATE		7.69	
C20:3	METHYL HOMOGAMMA LINOLENATE		7.69	
C20:4	METHYL ARACHIDONATE		7.69	
C22:6	METHYL DOCOSAHEXAENOATE		7.69	
C6:0	METHYL HEXANOATE		0.5	
C8:0	METHYL OCTANOATE		3.0	
C10:0	METHYL DECANOATE		3.0	
C12:0	METHYL LAURATE		50.0	
C13:0	METHYL TRIDECANOATE		0.5	
C14:0	METHYL MYRISTATE		15.0	\$65.00
C16:0	METHYL PALMITATE	GLC-92	8.0	
C18:0	METHYL STEARATE		4.0	
C18:1	METHYL OLEATE		10.0	
C18:2	METHYL LINOLEATE		4.0	
C18:3	METHYL ALPHA LINOLENATE		1.0	
C20:0	METHYL EICOSANOATE		1.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.			PRICE/100MG
C14:0	METHYL MYRISTATE	GLC-93	0.1			REPRESENTATIVE OF COCO BUTTER \$70.00
C16:0	METHYL PALMITATE		26.3			
C16:1	METHYL PALMITOLEATE		0.4			
C17:0	METHYL HEPTADECANOATE		0.3			
C18:0	METHYL STEARATE		33.7			
C18:1	METHYL OLEATE		34.3			
C18:2	METHYL LINOLEATE		3.1			
C18:3	METHYL ALPHA LINOLENATE		0.2			
C20:0	METHYL EICOSANOATE		1.3			
C20:1	METHYL 11-EICOSENOATE		0.1			
C22:0	METHYL BEHENATE		0.2			
C16:0	METHYL PALMITATE	GLC-94	6.0			REPRESENTATIVE OF FLAX \$60.00
C18:0	METHYL STEARATE		4.0			
C18:1	METHYL OLEATE		17.0			
C18:2	METHYL LINOLEATE		17.0			
C18:3	METHYL ALPHA LINOLENATE		56.0			
With 1% BHT added as antioxidant.						
C18:1	METHYL OLEATE	GLC-95	5.0			\$55.00
C18:2	METHYL LINOLEATE		15.0			
C18:3	METHYL GAMMA LINOLENATE		80.0			
			96	96-B	96-C	
C14:0	METHYL MYRISTATE	GLC-96	1.0	1.0	3.0	\$125.00
C16:0	METHYL PALMITATE		11.0	11.0	20.0	
C16:1	METHYL PALMITOLEATE		2.0	2.0	1.0	
C17:0	METHYL HEPTADECANOATE		8.0	8.0	8.0	
C18:0	METHYL STEARATE		11.0	11.0	20.0	
C18:1	METHYL OLEATE		17.0	17.0	10.0	
C18:2	METHYL LINOLEATE		8.0	8.0	4.0	
C18:3	METHYL ALPHA LINOLENATE		3.0	3.0	1.0	
C20:0	METHYL EICOSANOATE		1.0	1.0	3.0	
C20:1	METHYL 11-EICOSENOATE		1.0	1.0	1.0	
C20:2	METHYL 11-14-EICOSADIENOATE		1.0	1.0	1.0	
C20:3	METHYL HOMOGAMMA LINOLENATE		3.0	3.0	1.0	
C20:4	METHYL ARACHIDONATE		18.0	1.0	1.0	
C22:0	METHYL BEHENATE		2.0	19.0	20.0	
C22:1	METHYL ERUCATE		2.0	2.0	1.0	
C22:2	METHYL DOCOSADIENOATE		2.0	2.0	1.0	
C22:4	METHYL DOCOSATETRAENOATE		3.0	3.0	1.0	
C22:6	METHYL DOCOSAHEXAENOATE		4.0	4.0	1.0	
C24:0	METHYL LIGNOCERATE		1.0	1.0	1.0	
C24:1	METHYL NERVONATE		1.0	1.0	1.0	
C8:0	METHYL OCTANOATE	GLC-97	5.0			\$55.00
C10:0	METHYL DECANOATE		28.5			
C12:0	METHYL LAURATE		66.5			
C14:0	METHYL MYRISTATE	GLC-98	21.0			\$55.00
C16:0	METHYL PALMITATE		21.0			
C18:0	METHYL STEARATE		21.0			
C22:0	METHYL BEHENATE		1.0			
C22:1	METHYL ERUCATE		36.0			
C18:0	METHYL STEARATE	GLC-100	5.0			\$55.00
C18:1	METHYL OLEATE		30.0			
C18:2	METHYL LINOLEATE		60.0			
C18:3	METHYL ALPHA LINOLENATE		5.0			

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C14:0	METHYL MYRISTATE	GLC-132	2.2	\$60.00
C15:0	METHYL PENTADECANOATE		0.7	
C16:0	METHYL PALMITATE		48.7	
C17:0	METHYL HEPTADECANOATE		2.0	
C18:0	METHYL STEARATE		45.0	
C18:1	METHYL OLEATE		0.5	
C19:0	METHYL NONADECANOATE		0.3	
C20:0	METHYL EICOSANOATE		0.6	
C14:0	METHYL MYRISTATE	GLC-200-F	3.0	\$60.00
C16:0	METHYL PALMITATE		70.0	
C16:1	METHYL PALMITOLEATE		7.0	
C18:0	METHYL STEARATE		4.0	
C18:1	METHYL OLEATE		9.0	
C18:2	METHYL LINOLEATE		3.0	
C18:3	METHYL ALPHA LINOLENATE		2.0	
C20:4	METHYL ARACHIDONATE		2.0	
C10:0	METHYL DECANOATE	GLC-211	0.1	\$80.00
C12:0	METHYL LAURATE		0.2	
C14:0	METHYL MYRISTATE		2.6	
C14:1	METHYL MYRISTOLEATE		0.8	
C15:0	METHYL PENTADECANOATE		0.2	
C15:1	METHYL 10-PENTADECENOATE		0.2	
C16:0	METHYL PALMITATE		4.2	
C16:1	METHYL PALMITOLEATE		5.8	
C16:1T	METHYL PALMITELAIDATE		0.2	
C17:0	METHYL HEPTADECANOATE		0.2	
C17:1	METHYL 10-HEPTADECENOATE		1.1	
C18:0	METHYL STEARATE		0.7	
C18:1T	METHYL ELAIDATE		2.8	
C18:1	METHYL OLEATE		69.2	
C18:2TT	METHYL LINOELAIDATE		0.4	
C18:2	METHYL LINOLEATE		9.4	
C18:3	METHYL ALPHA LINOLENATE		0.6	
C20:1	METHYL 11-EICOSENOATE		1.1	
C20:2	METHYL 11-14-EICOSADIENOATE		0.2	
C14:0	METHYL MYRISTATE	GLC-PSA #1	2.2	\$60.00
C15:0	METHYL PENTADECANOATE		0.7	
C16:0	METHYL PALMITATE		47.0	
C16:1	METHYL PALMITOLEATE		0.5	
C17:0	METHYL HEPTADECANOATE		2.0	
C18:0	METHYL STEARATE		36.0	
C18:1	METHYL OLEATE		9.0	
C18:2	METHYL LINOLEATE		1.0	
C18:3	METHYL ALPHA LINOLENATE		0.5	
C19:0	METHYL NONADECANOATE		0.6	
C20:0	METHYL EICOSANOATE		0.5	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C6:0	METHYL HEXANOATE		5.0	
C8:0	METHYL OCTANOATE		5.0	
C10:0	METHYL DECANOATE		5.0	
C12:0	METHYL LAURATE		5.0	
C12:1	METHYL 11-DODECENOATE		5.0	
C14:0	METHYL MYRISTATE		5.0	
C14:1	METHYL MYRISTALEATE		5.0	
C16:0	METHYL PALMITATE		10.0	
C16:1	METHYL PALMITOLEATE	GLC-401	5.0	\$65.00
C18:0	METHYL STEARATE		10.0	
C18:1	METHYL OLEATE		5.0	
C20:0	METHYL ARACHIDATE		10.0	
C20:1	METHYL 11-EICOSENOATE		5.0	
C22:0	METHYL BEHENATE		5.0	
C22:1	METHYL ERUCATE		5.0	
C24:0	METHYL LIGNOCERATE		5.0	
C24:1	METHYL NERVONATE		5.0	
C14:0	METHYL MYRISTATE		1.0	
C16:0	METHYL PALMITATE		4.0	
C18:0	METHYL STEARATE		3.0	
C18:1	METHYL OLEATE		60.0	
C18:2	METHYL LINOLEATE		12.0	
C18:3	METHYL ALPHA LINOLENATE	GLC-402	5.0	\$65.00
C20:0	METHYL ARACHIDATE		3.0	
C20:1	METHYL 11-EICOSENOATE		1.0	
C22:0	METHYL BEHENATE		3.0	
C22:1	METHYL ERUCATE		5.0	
C24:0	METHYL LIGNOCERATE		3.0	
C6:0	METHYL HEXANOATE		2.0	
C8:0	METHYL OCTANOATE		2.0	
C10:0	METHYL DECANOATE		2.0	
C12:0	METHYL LAURATE		2.0	
C12:1	METHYL 11-DODECENOATE		2.0	
C14:0	METHYL MYRISTATE		2.0	
C14:1	METHYL MYRISTOLEATE		2.0	
C16:0	METHYL PALMITATE		8.0	
C16:1	METHYL PALMITOLEATE		4.0	
C17:0	METHYL HEPTADECANOATE		4.0	
C18:0	METHYL STEARATE		8.0	
C18:1	METHYL OLEATE		16.0	
C18:2	METHYL LINOLEATE		4.0	
C18:3	METHYL ALPHA LINOLENATE	GLC-403	4.0	\$120.00
C20:0	METHYL ARACHIDATE		8.0	
C20:1	METHYL 11-EICOSENOATE		4.0	
C20:2	METHYL 11-14-EICOSADIENOATE		2.0	
C20:3	METHYL 11-14-17-EICOSATRIENOATE		2.0	
C20:4	METHYL ARACHIDONATE		2.0	
C20:3	METHYL HOMOGAMMA LINOLENATE		2.0	
C22:0	METHYL BEHENATE		2.0	
C22:1	METHYL ERUCATE		2.0	
C23:0	METHYL TRICOSANOATE		8.0	
C24:0	METHYL LIGNOCERATE		2.0	
C22:6	METHYL DOCOSAHEXAENOATE		2.0	
C24:1	METHYL NERVONATE		2.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C16:0	METHYL PALMITATE		3.0	
C18:1	METHYL OLEATE		17.0	
C18:2	METHYL LINOLEATE		13.0	
C18:3	METHYL ALPHA LINOLENATE	GLC-404	8.0	\$60.00
C20:1	METHYL 11-EICOSENOATE		8.0	
C22:0	METHYL BEHENATE		1.0	
C22:1	METHYL ERUCATE		50.0	
C12:0	METHYL LAURATE		0.1	
C14:0	METHYL MYRISTATE		1.8	
C15:0	METHYL PENTADECANOATE		0.2	
C16:0	METHYL PALMITATE		74.5	
C17:0	METHYL HEPTADECANOATE	GLC-407	0.6	\$60.00
C18:0	METHYL STEARATE		22.0	
C18:1	METHYL OLEATE		0.4	
C19:0	METHYL NONADECANOATE		0.2	
C20:0	METHYL ARACHIDATE		0.2	
C14:1	METHYL MYRISTOLEATE		9.1	
C15:1	METHYL 10-PENTADECENOATE		9.1	
C16:1	METHYL PALMITOLEATE		9.1	
C18:1	METHYL OLEATE		9.1	
C18:2	METHYL LINOLEATE		9.1	
C18:3	METHYL ALPHA LINOLENATE	GLC-408	9.1	\$80.00
C20:1	METHYL 11-EICOSENOATE		9.1	
C20:4	METHYL ARACHIDONATE		9.1	
C22:1	METHYL ERUCATE		9.1	
C22:6	METHYL DOCOSAHEXAENOATE		9.1	
C24:1	METHYL NERVONATE		9.1	
C12:0	METHYL LAURATE		9.1	
C14:0	METHYL MYRISTATE		9.1	
C15:0	METHYL PENTADECANOATE		9.1	
C16:0	METHYL PALMITATE		9.1	
C17:0	METHYL HEPTADECANOATE		9.1	
C18:0	METHYL STEARATE	GLC-409	9.1	\$65.00
C19:0	METHYL NONADECANOATE		9.1	
C20:0	METHYL ARACHIDATE		9.1	
C21:0	METHYL HENEICOSANOATE		9.1	
C22:0	METHYL BEHENATE		9.1	
C24:0	METHYL LIGNOCERATE		9.1	
C14:0	METHYL MYRISTATE		1.0	
C16:0	METHYL PALMITATE		37.0	
C16:1	METHYL PALMITOLEATE		1.0	
C18:0	METHYL STEARATE	GLC-410	2.0	\$60.00
C18:1	METHYL OLEATE		14.0	
C18:2	METHYL LINOLEATE		45.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C8:0	METHYL OCTANOATE		3.23	
C10:0	METHYL DECANOATE		3.23	
C12:0	METHYL LAURATE		3.23	
C12:1	METHYL 11 DODECENOATE		3.23	
C14:0	METHYL MYRISTATE		3.23	
C14:1	METHYL MYRISTOLEATE		3.23	
C16:0	METHYL PALMITATE		3.23	
C16:1	METHYL PALMITOLEATE		3.23	
C18:0	METHYL STEARATE		3.23	
C18:1	METHYL OLEATE		3.23	
C18:1	METHYL PETROSELINATE		3.23	
C18:1	METHYL VACCENATE		3.23	
C18:2	METHYL LINOLEATE		3.23	
C20:0	METHYL ARACHIDATE		3.23	
C18:3	METHYL ALPHA LINOLENATE		3.23	
C18:3	METHYL GAMMA LINOLENATE	GLC-411	3.23	\$160.00
C20:1	METHYL 5-EICOSENOATE		3.23	
C20:1	METHYL 8-EICOSENOATE		3.23	
C20:1	METHYL 11-EICOSENOATE		3.23	
C20:2	METHYL 11-14-EICOSADIENOATE		3.23	
C22:0	METHYL BEHENATE		3.23	
C22:1	METHYL ERUCATE		3.23	
C20:3	METHYL 11-14-17-EICOSATRIENOATE		3.23	
C20:3	METHYL HOMO GAMMA LINOLENATE		3.23	
C20:4	METHYL ARACHIDONATE		3.23	
C22:2	METHYL 13-16-DOCOSADIENOATE		3.23	
C22:3	METHYL 13-16-19-DOCOSATRIENOATE		3.23	
C22:4	METHYL 7-10-13-16-DOCOSATETRAENOATE		3.23	
C24:0	METHYL LIGNOCERATE		3.23	
C24:1	METHYL NERVONATE		3.23	
C22:6	METHYL DOCOSAHEXAENOATE		3.23	
C16:0	METHYL PALMITATE		7.0	REPRESENTATIVE OF
C18:0	METHYL STEARATE		1.5	EVENING PRIMROSE
C18:1	METHYL OLEATE		10.5	
C18:2	METHYL LINOLEATE		71.0	
C18:3	METHYL GAMMA LINOLENATE	GLC-411-EP	9.4	
C18:3	METHYL ALPHA LINOLENATE		0.2	\$65.00
C20:0	METHYL ARACHIDATE		0.2	
C20:1	METHYL 11-EICOSENOATE		0.2	
C4:0	METHYL BUTYRATE		10.53	
C5:0	METHYL PENTANOATE		10.53	
C6:0	METHYL HEXANOATE		10.53	
C7:0	METHYL HEPTANOATE		10.53	
C8:0	METHYL OCTANOATE		5.26	
C9:0	METHYL NONANOATE		5.26	
C10:0	METHYL DECANOATE		5.26	
C11:0	METHYL HENDECANOATE		5.26	\$60.00
C12:0	METHYL DODECANOATE	GLC-412	5.26	
C13:0	METHYL TRIDECANOATE		5.26	
C14:0	METHYL TETRADECANOATE		5.26	
C15:0	METHYL PENTADECANOATE		5.26	
C16:0	METHYL HEXADECANOATE		5.26	
C17:0	METHYL HEPTADECANOATE		5.26	
C18:0	METHYL OCTADECANOATE		5.26	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C16:0	METHYL PALMITATE	GLC-412-BS	10.0	REPRESENTATIVE OF BORAGE SEED \$80.00
C16:1	METHYL PALMITOLEATE		0.3	
C18:0	METHYL STEARATE		3.0	
C18:1	METHYL OLEATE		14.5	
C18:2	METHYL LINOLEATE		39.0	
C18:3	METHYL GAMMA LINOLENATE		25.0	
C18:3	METHYL ALPHA LINOLENATE		0.2	
C20:0	METHYL ARACHIDATE		0.2	
C20:1	METHYL 11-EICOSENOATE		3.8	
C22:1	METHYL ERUCATE		2.5	
C24:1	METHYL NERVONATE		1.5	
C4:0	METHYL BUTYRATE	GLC-413	9.09	\$70.00
C5:0	METHYL PENTANOATE		9.09	
C6:0	METHYL HEXANOATE		9.09	
C7:0	METHYL HEPTANOATE		9.09	
C8:0	METHYL OCTANOATE		4.55	
C9:0	METHYL NONANOATE		4.55	
C10:0	METHYL DECANOATE		4.55	
C11:0	METHYL HENDECANOATE		4.55	
C12:0	METHYL LAURATE		4.55	
C13:0	METHYL TRIDECANOATE		4.55	
C14:0	METHYL MYRISTATE		4.55	
C15:0	METHYL PENTADECANOATE		4.55	
C16:0	METHYL PALMITATE		4.55	
C17:0	METHYL HEPTADECANOATE		4.55	
C18:0	METHYL STEARATE		4.55	
C18:1	METHYL OLEATE		4.55	
C18:2	METHYL LINOLEATE		4.55	
C18:3	METHYL ALPHA LINOLENATE		4.55	
C8:0	METHYL OCTANOATE	GLC-414	4.0	\$60.00
C10:0	METHYL DECANOATE		3.0	
C12:0	METHYL LAURATE		26.0	
C14:0	METHYL MYRISTATE		11.0	
C16:0	METHYL PALMITATE		10.0	
C18:0	METHYL STEARATE		3.0	
C18:1	METHYL OLEATE		13.0	
C18:2	METHYL LINOLEATE		27.0	
C18:3	METHYL ALPHA LINOLENATE		3.0	
C14:0	METHYL MYRISTATE	GLC-415	1.0	\$65.00
C16:0	METHYL PALMITATE		9.0	
C16:1	METHYL PALMITOLEATE		1.0	
C18:0	METHYL STEARATE		5.0	
C18:1	METHYL OLEATE		45.0	
C18:2	METHYL LINOLEATE		33.0	
C18:3	METHYL ALPHA LINOLENATE		3.0	
C20:0	METHYL ARACHIDATE		1.0	
C20:1	METHYL 11-EICOSENOATE		1.0	
C22:0	METHYL BEHENATE		1.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C12:0	METHYL LAURATE	GLC-416	3.0	\$65.00
C14:0	METHYL MYRISTATE		2.0	
C16:0	METHYL PALMITATE		19.0	
C16:1	METHYL PALMITOLEATE		1.0	
C18:0	METHYL STEARATE		4.0	
C18:1	METHYL OLEATE		23.0	
C18:2	METHYL LINOLEATE		42.0	
C18:3	METHYL ALPHA LINOLENATE		2.0	
C20:0	METHYL ARACHIDATE		1.0	
C20:1	METHYL 11-EICOSENOATE		1.0	
C22:0	METHYL BEHENATE	GLC-418	1.0	\$65.00
C24:0	METHYL LIGNOCERATE		1.0	
C16:0	METHYL PALMITATE		30.0	
C18:0	METHYL STEARATE		15.0	
C18:1	METHYL OLEATE		25.0	
C18:2	METHYL LINOLEATE		20.0	
C20:4	METHYL ARACHIDONATE	GLC-419	5.0	\$60.00
C22:6	METHYL DOCOSAHEXAENOATE		5.0	
C16:0	METHYL PALMITATE		10.0	
C16:1	METHYL PALMITOLEATE		.1	
C18:0	METHYL STEARATE		4.5	
C18:1	METHYL OLEATE		61.5	
C18:2	METHYL LINOLEATE		22.0	
C18:3	METHYL ALPHA LINOLENATE		1.0	
C20:0	METHYL ARACHIDATE	GLC-420	0.3	\$60.00
C20:1	METHYL 11-EICOSENOATE		0.3	
C22:0	METHYL BEHENATE		0.3	
C8:0	METHYL OCTANOATE		3.0	
C10:0	METHYL DECANOATE		2.0	
C12:0	METHYL LAURATE		21.0	
C14:0	METHYL MYRISTATE		7.0	
C16:0	METHYL PALMITATE		9.0	
C18:0	METHYL STEARATE	GLC-421	4.0	\$70.00
C18:1	METHYL OLEATE		19.0	
C18:2	METHYL LINOLEATE		31.0	
C18:3	METHYL ALPHA LINOLENATE		4.0	
C16:0	METHYL PALMITATE		3.0	
C16:1	METHYL PALMITOLEATE		1.0	
C18:0	METHYL STEARATE		1.0	
C18:1	METHYL OLEATE		15.0	
C18:2	METHYL LINOLEATE		12.0	
C18:3	METHYL ALPHA LINOLENATE		10.0	
C20:0	METHYL ARACHIDATE	GLC-421	1.0	
C20:1	METHYL 11-EICOSENOATE		5.0	
C20:2	METHYL 11-14-EICOSADIENOATE		1.0	
C22:0	METHYL BEHENATE		1.0	
C22:1	METHYL ERUCATE		45.0	
C22:2	METHYL DOCOSADIENOATE		2.0	
C24:0	METHYL LIGNOCERATE		1.0	
C24:1	METHYL NERVONATE		2.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.		PRICE/100MG	
C16:0	METHYL PALMITATE	GLC-421-A	3.0		REPRESENTATIVE OF	
C16:1	METHYL PALMITOLEATE		1.0		MUSTARD SEED	
C18:0	METHYL STEARATE		2.0			
C18:1	METHYL OLEATE		20.0			
C18:2	METHYL LINOLEATE		15.0			
C18:3	METHYL ALPHA LINOLENATE		10.0			
C20:0	METHYL ARACHIDATE		1.0			
C20:1	METHYL 11-EICOSENOATE		10.0			
C20:2	METHYL 11-14-EICOSADIENOATE		2.0		\$70.00	
C22:0	METHYL BEHENATE		1.0			
C22:1	METHYL ERUCATE	GLC-423	30.0			
C22:2	METHYL DOCOSADIENOATE		2.0			
C24:0	METHYL LIGNOCERATE		1.0			
C24:1	METHYL NERVONATE		2.0			
C11:1	METHYL 10-UNDECENOATE		10.0			
C12:1	METHYL 11-DODECENOATE		10.0			
C13:1	METHYL 12-TRIDECENOATE		10.0			
C14:1	METHYL 9-TETRADECENOATE		10.0			
C15:1	METHYL 10-PENTADECENOATE		10.0			
C16:1	METHYL 9-HEXADECENOATE		10.0		\$60.00	
C17:1	METHYL 10-HEPTADECENOATE	10.0				
C18:1	METHYL 9-OCTADECENOATE	10.0				
C19:1	METHYL 10-NONADECENOATE	10.0				
C20:1	METHYL 11-EICOSENOATE	10.0				
C18:3	METHYL GAMMA LINOLENATE	GLC-424	A	B	C	\$60.00 EACH
C18:3	METHYL ALPHA LINOLENATE		50.0	75.0	25.0	
C18:1	METHYL OLEATE	GLC-425	20.0			
C18:2	METHYL LINOLEATE		25.0	\$60.00		
C22:1	METHYL ERUCATE		55.0			
C6:0	METHYL HEXANOATE	GLC-426	2.0			
C8:0	METHYL OCTANOATE		4.0			
C10:0	METHYL DECANOATE		8.0			
C12:0	METHYL LAURATE		8.0			
C14:0	METHYL MYRISTATE		12.0			
C14:1	METHYL MYRISTOLEATE		2.0			
C15:0	METHYL PENTADECANOATE		2.0			
C16:0	METHYL PALMITATE		16.0			
C16:1	METHYL PALMITOLEATE		2.0			
C17:0	METHYL HEPTADECANOATE		2.0			
C17:1	METHYL 10-HEPTADECENOATE		2.0		\$80.00	
C18:0	METHYL STEARATE		12.0			
C18:1	METHYL OLEATE		8.0			
C18:2	METHYL LINOLEATE		6.0			
C18:3	METHYL ALPHA LINOLENATE		2.0			
C19:0	METHYL NONADECANOATE		2.0			
C20:0	METHYL ARACHIDATE		2.0			
C20:1	METHYL 11-EICOSENOATE		4.0			
C22:0	METHYL BEHENATE		2.0			
C24:0	METHYL LIGNOCERATE		2.0			

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C12:0	METHYL LAURATE		0.5	
C14:0	METHYL MYRISTATE		0.5	
C16:0	METHYL PALMITATE		4.0	
C16:1	METHYL PALMITOLEATE		0.5	
C18:0	METHYL STEARATE		1.0	
C18:1	METHYL OLEATE		55.5	
C18:2	METHYL LINOLEATE		20.0	
C18:3	METHYL ALPHA LINOLENATE	GLC-428	10.0	\$65.00
C20:0	METHYL ARACHIDATE		1.0	
C20:1	METHYL 11 EICOSENOATE		2.0	
C20:2	METHYL 11-14 EICOSADIENOATE		0.5	
C22:0	METHYL BEHENATE		1.0	
C22:1	METHYL ERUCATE		2.0	
C24:0	METHYL LIGNOCERATE		0.5	
C24:1	METHYL NERVONATE		1.0	
C17:0	METHYL HEPTADECANOATE		38.0	
C20:5	METHYL EICOSAPENTAENOATE	GLC-443	38.0	\$105.00
C22:6	METHYL DOCOSAHEXANNOATE		24.0	
C6:0	METHYL HEXANOATE		1.0	
C8:0	METHYL OCTANOATE		1.0	
C10:0	METHYL DECANOATE		1.0	
C12:0	METHYL LAURATE		5.0	
C14:0	METHYL MYRISTATE		2.0	
C16:0	METHYL PALMITATE		10.0	
C16:1	METHYL PALMITOLEATE		1.0	
C18:0	METHYL STEARATE	GLC-447	1.0	\$65.00
C18:1	METHYL OLEATE		32.0	
C18:2	METHYL LINOLEATE		40.0	
C18:3	METHYL ALPHA LINOLENATE		2.0	
C20:0	METHYL ARACHIDATE		1.0	
C20:1	METHYL 11-EICOSENOATE		1.0	
C22:0	METHYL BEHENATE		1.0	
C24:0	METHYL LIGNOCERATE		1.0	
C4:0	METHYL BUTYRATE		2.0	
C6:0	METHYL HEXANOATE		2.0	
C8:0	METHYL OCTANOATE		2.0	
C10:0	METHYL DECANOATE		2.0	
C12:0	METHYL LAURATE		2.0	
C14:0	METHYL MYRISTATE		2.0	
C14:1	METHYL MYRISTOLEATE		2.0	
C15:0	METHYL PENTADECANOATE		2.0	
C16:0	METHYL PALMITATE		12.0	
C16:1	METHYL PALMITOLEATE		2.0	
C17:0	METHYL HEPTADECANOATE		2.0	
C17:1	METHYL 10-HEPTADECENOATE	GLC-448	2.0	\$80.00
C18:0	METHYL STEARATE		2.0	
C18:1	METHYL OLEATE		25.0	
C18:1T	METHYL ELAIDATE		2.0	
C18:2	METHYL LINOLEATE		25.0	
C18:2TT	METHYL LINOELAIDATE		2.0	
C18:3	METHYL ALPHA LINOLENATE		2.0	
C20:0	METHYL ARACHIDATE		2.0	
C20:1	METHYL 11-EICOSENOATE		2.0	
C22:0	METHYL BEHENATE		2.0	
C24:0	METHYL LIGNOCERATE		2.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C6:0	METHYL HEXANOATE		1.0	POLYSORBATE 20
C8:0	METHYL OCTANOATE		8.0	
C10:0	METHYL DECANOATE		7.0	
C12:0	METHYL LAURATE		46.0	
C14:0	METHYL MYRISTATE	GLC-450	18.0	\$50.00
C16:0	METHYL PALMITATE		8.0	
C18:0	METHYL STEARATE		3.0	
C18:1	METHYL OLEATE		7.0	
C18:2	METHYL LINOLEATE		2.0	
C14:0	METHYL MYRISTATE		6.25	
C16:0	METHYL PALMITATE		6.25	
C16:1	METHYL PALMITOLEATE		6.25	
C17:0	METHYL HEPTADECANOATE		6.25	
C18:0	METHYL STEARATE		6.25	
C18:1	METHYL OLEATE		6.25	
C18:2	METHYL LINOLEATE		6.25	
C18:3	METHYL ALPHA LINOLENATE	GLC-455	6.25	\$100.00
C18:3	METHYL GAMMA LINOLENATE		6.25	
C20:2	METHYL 11-14 EICOSADIENOATE		6.25	
C20:3	METHYL HOMOGAMMA LINOLENATE		6.25	
C20:4	METHYL ARACHIDONATE		6.25	
C20:5	METHYL EICOSAPENTAENOATE		6.25	
C22:4	METHYL DOCOSATETRAENOATE		6.25	
C22:5N3	METHYL DOCOSAPENTAENOATE		6.25	
C22:6	METHYL DOCOSAHEXAENOATE		6.25	
C4:0	METHYL BUTYRATE		1.0	
C6:0	METHYL HEXANOATE		0.5	
C8:0	METHYL OCTANOATE		4.0	
C10:0	METHYL DECANOATE		4.0	
C12:0	METHYL LAURATE		8.0	
C13:0	METHYL TRIDECANOATE		15.0	
C14:0	METHYL MYRISTATE		5.0	
C14:1	METHYL MYRISTOLEATE		0.5	
C15:0	METHYL PENTADECANOATE		0.2	
C16:0	METHYL PALMITATE		20.0	
C16:1	METHYL PALMITOLEATE		0.4	
C17:0	METHYL HEPTADECANOATE		0.2	
C18:0	METHYL STEARATE		5.0	
C18:1	METHYL OLEATE	GLC-458	20.0	\$145.00
C18:2	METHYL LINOLEATE		10.0	
C18:3	METHYL ALPHA LINOLENATE		1.0	
C18:3	METHYL GAMMA LINOLENATE		0.4	
C20:0	METHYL ARACHIDATE		0.5	
C20:1T	METHYL 11 TRANSEICOSENOATE		0.2	
C20:2	METHYL 11-14 EICOSADIENOATE		0.2	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		0.2	
C20:3	METHYL HOMOGAMMA LINOLENATE		0.2	
C20:4	METHYL ARACHIDONATE		0.3	
C20:5	METHYL EICOSAPENTAENOATE		0.3	
C22:0	METHYL BEHENATE		0.5	
C22:1T	METHYL BRASSIDATE		0.2	
C22:6	METHYL DOCOSAHEXAENOATE		0.5	
C23:0	METHYL TRICOSANOATE		1.5	
C24:0	METHYL LIGNOCERATE		0.2	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C6:0	METHYL HEXANOATE		0.2	
C8:0	METHYL OCTANOATE		3.5	
C10:0	METHYL DECANOATE		3.0	
C12:0	METHYL LAURATE		26.0	
C14:0	METHYL MYRISTATE		10.0	
C16:0	METHYL PALMITATE		15.5	
C16:1	METHYL PALMITOLEATE		0.1	
C17:0	METHYL HEPTADECANOATE	GLC-459	0.1	\$70.00
C18:0	METHYL STEARATE		3.0	
C18:1	METHYL OLEATE		18.7	
C18:2	METHYL LINOLEATE		17.7	
C18:3	METHYL ALPHA LINOLENATE		1.5	
C20:0	METHYL ARACHIDATE		0.3	
C20:1	METHYL 11-EICOSENOATE		0.2	
C22:0	METHYL BEHENATE		0.1	
C24:0	METHYL LIGNOCERATE		0.1	
C6:0	METHYL HEXANOATE		0.1	
C8:0	METHYL OCTANOATE		1.6	
C10:0	METHYL DECANOATE		1.0	
C12:0	METHYL LAURATE		9.5	
C14:0	METHYL MYRISTATE		4.0	
C16:0	METHYL PALMITATE		24.5	
C16:1	METHYL PALMITOLEATE		0.1	
C17:0	METHYL HEPTADECANOATE	GLC-460	0.1	\$70.00
C18:0	METHYL STEARATE		3.3	
C18:1	METHYL OLEATE		28.0	
C18:2	METHYL LINOLEATE		25.0	
C18:3	METHYL ALPHA LINOLENATE		2.0	
C20:0	METHYL ARACHIDATE		0.3	
C20:1	METHYL 11-EICOSENOATE		0.2	
C22:0	METHYL BEHENATE		0.1	
C24:0	METHYL LIGNOCERATE		0.1	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.				PRICE/100MG
			461	461-A	461-B	461-C	
C4:0	METHYL BUTYRATE		3.125	3.03	2.86	-	
C6:0	METHYL CAPROATE		3.125	3.03	2.86	-	
C8:0	METHYL CAPRYLATE		3.125	3.03	2.86	2.0	
C10:0	METHYL CAPRATE		3.125	3.03	2.86	2.0	
C12:0	METHYL LAURATE		3.125	3.03	2.86	2.0	
C13:0	METHYL TRIDECANOATE		-	3.03	2.86	-	
C14:0	METHYL MYRISTATE		3.125	3.03	2.86	4.0	
C14:1	METHYL MYRISTOLEATE		3.125	3.03	2.86	3.0	
C15:0	METHYL PENTADECANOATE		3.125	3.03	2.86	3.0	
C16:0	METHYL PALMITATE		3.125	3.03	2.86	6.0	
C16:1	METHYL PALMITOLEATE		3.125	3.03	2.86	4.0	
C17:0	METHYL HEPTADECANOATE		3.125	3.03	2.86	3.0	
C17:1	METHYL 10-HEPTADECENOATE		3.125	3.03	2.86	3.0	
C18:0	METHYL STEARATE		3.125	3.03	2.86	4.0	
C18:1	METHYL OLEATE		3.125	3.03	2.86	6.0	
C18:1	METHYL VACCENATE		-	-	-	4.0	
C18:2	METHYL LINOLEATE		3.125	3.03	2.86	4.0	\$170.00 EACH
C18:3	METHYL ALPHA LINOLENATE		3.125	3.03	2.86	3.0	
C18:3	METHYL 6-9-12- GAMMA LINOLENATE	GLC-461	3.125	3.03	2.86	3.0	
C20:0	METHYL ARACHIDATE		3.125	3.03	2.86	3.0	
C20:1	METHYL 11-EICOSENOATE		3.125	3.03	2.86	3.0	
C20:2	METHYL 11-14-EICOSADIENOATE		3.125	3.03	2.86	3.0	
C20:3	METHYL 11-14-17-EICOSATRIENOATE		3.125	3.03	2.86	3.0	
C20:3	METHYL 8-11-14-HOMOGAMMA LINOLENATE		3.125	3.03	2.86	3.0	
C20:4	METHYL ARACHIDONATE		3.125	3.03	2.86	4.0	
C20:5	METHYL EICOSAPENTAENOATE		3.125	3.03	2.86	4.0	
C22:0	METHYL BEHENATE		3.125	3.03	2.86	3.0	
C22:1	METHYL ERUCATE		3.125	3.03	2.86	3.0	
C22:2	METHYL DOCOSADIENOATE		3.125	3.03	2.86	3.0	
C22:4	METHYL DOCOSATETRAENOATE		3.125	3.03	2.86	3.0	
C23:0	METHYL TRICOSANOATE		-	-	2.86	-	
C22:5N6	METHYL DOCOSAPENTAENOATE		-	-	2.86	-	
C22:5N3	METHYL DOCOSAPENTAENOATE		3.125	3.03	2.86	3.0	
C22:6	METHYL DOCOSAHEXAENOATE		3.125	3.03	2.86	3.0	
C24:0	METHYL LIGNOCERATE		3.125	3.03	2.86	3.0	
C24:1	METHYL NERVONATE		3.125	3.03	2.86	-	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C10:0	METHYL CAPRATE		3.45	
C12:0	METHYL LAURATE		3.45	
C12:1	METHYL 11-DODECENOATE		3.45	
C14:0	METHYL MYRISTATE		3.45	
C14:1	METHYL MYRISTOLEATE		3.45	
C16:0	METHYL PALMITATE		3.45	
C16:1	METHYL PALMITOLEATE		3.45	
C18:0	METHYL STEARATE		3.45	
C18:1	METHYL OLEATE		3.45	
C18:1	METHYL VACCENATE		3.45	
C18:2	METHYL LINOLEATE		3.45	
C18:3	METHYL GAMMA LINOLENATE	GLC-462	3.45	\$170.00
C18:3	METHYL ALPHA LINOLENATE		3.45	
C20:0	METHYL EICOSANOATE		3.45	
C20:1	METHYL 11-EICOSENOATE		3.45	
C20:2	METHYL 11-14-EICOSADIENOATE		3.45	
C20:3	METHYL HOMOGAMMA LINOLENATE		3.45	
C20:4	METHYL ARACHIDONATE		3.45	
C20:3	METHYL 11-14-17-EICOSATRIENOATE		3.45	
C20:5	METHYL EICOSAPENTAENOATE		3.45	
C22:0	METHYL BEHENATE		3.45	
C22:1	METHYL ERUCATE		3.45	
C22:2	METHYL 13-16-DOCOSADIENOATE		3.45	
C22:4	METHYL DOCOSATETRAENOATE		3.45	
C22:5N3	METHYL DOCOSAPENTAENOATE		3.45	
C24:0	METHYL LIGNOCERATE		3.45	
C22:6	METHYL DOCOSAHEXAENOATE		3.45	
C24:1	METHYL NERVONATE		3.45	
	CHOLESTEROL		3.45	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT. AS INDICATED			PRICE/100MG
			463	463-B	463-C	
C4:0	METHYL BUTYRATE		1.0	1.0	1.0	
C5:0	METHYL PENTANOATE		1.0	1.0	1.0	
C6:0	METHYL CAPROATE		1.0	1.0	1.0	
C7:0	METHYL HEPTANOATE		1.0	1.0	1.0	
C8:0	METHYL CAPRYLATE		2.0	2.0	2.0	
C9:0	METHYL NONANOATE		1.0	1.0	1.0	
C10:0	METHYL CAPRATE		2.0	2.0	5.0	
C11:0	METHYL UNDECANOATE		1.0	1.0	1.0	
C11:1	METHYL 10-UNDECENOATE		1.0	1.0	1.0	
C12:0	METHYL LAURATE		4.0	6.0	6.0	
C12:1	METHYL DODECENOATE		2.0	2.0	2.0	
C13:0	METHYL TRIDECANOATE		1.0	1.0	1.0	
C13:1	METHYL 12-TRIDECENOATE		1.0	1.0	1.0	
C14:0	METHYL MYRISTATE		4.0	6.0	6.0	
C14:1	METHYL MYRISTOLEATE		2.0	2.0	2.0	
C15:0	METHYL PENTADECANOATE		1.0	1.0	1.0	
C15:1	METHYL 10-PENTADECENOATE		1.0	1.0	1.0	
C16:0	METHYL PALMITATE		4.0	4.0	4.0	
C16:1	METHYL PALMITOLEATE		4.0	4.0	4.0	
C16:1T	METHYL PALMITELAIDATE		1.0	1.0	1.0	
C17:0	METHYL HEPTADECANOATE		2.0	2.0	2.0	
C17:1	METHYL 10-HEPTADECENOATE		2.0	2.0	2.0	
C18:0	METHYL STEARATE		4.0	4.0	4.0	
C18:1	METHYL OLEATE		4.0	4.0	4.0	
C18:1T	METHYL ELAIDATE		1.0	1.0	1.0	
C18:1	METHYL PETROSELINATE	GLC-463	1.0	1.0	1.0	\$295.00
C18:1	METHYL VACCENATE		1.0	1.0	1.0	
C18:1T	METHYL TRANSVACCENATE		1.0	1.0	1.0	
C18:2	METHYL LINOLEATE		4.0	4.0	4.0	
C18:2T	METHYL LINOELAIDATE		2.0	2.0	2.0	
C18:3	METHYL GAMMA LINOLENATE		1.0	1.0	1.0	
C19:0	METHYL NONADECANOATE		1.0	1.0	1.0	
C19:1	METHYL 7-NONADECENOATE		1.0	1.0	1.0	
C18:3	METHYL ALPHA LINOLENATE		4.0	4.0	4.0	
C20:0	METHYL ARACHIDATE		4.0	4.0	4.0	
C20:1	METHYL 5-EICOSENOATE		2.0	2.0	2.0	
C20:1	METHYL 8-EICOSENOATE		2.0	2.0	2.0	
C20:1	METHYL 11-EICOSENOATE		2.0	2.0	2.0	
C20:2	METHYL 11-14-EICOSADIENOATE		2.0	2.0	2.0	
C20:3	METHYL HOMOGAMMA LINOLENATE		1.0	1.0	1.0	
C20:4	METHYL ARACHIDONATE		1.0	1.0	1.0	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		2.0	2.0	2.0	
C20:5	METHYL EICOSAPENTAENOATE		2.0	-	--	
C22:0	METHYL BEHENATE		2.0	2.0	--	
C22:1	METHYL ERUCATE		4.0	4.0	4.0	
C22:2	METHYL DOCOSADIENOATE		1.0	1.0	1.0	
C22:3	METHYL DOCOSATRIENOATE		2.0	2.0	2.0	
C22:4	METHYL DOCOSATETRAENOATE		1.0	1.0	1.0	
C24:0	METHYL LIGNOCERATE		2.0	2.0	2.0	
C22:5 N3	METHYL DOCOSAPENTAENOATE		2.0	2.0	2.0	
C22:6	METHYL DOCOSAHEXAENOATE		2.0	-	-	
C24:1	METHYL NERVONATE		1.0	1.0	-	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT. AS INDICATED		PRICE/100MG
			469	469-B	
C13:0	METHYL TRIDECANOATE		4.0	--	
C14:0	METHYL MYRISTATE		4.0	15.0	
C14:1	METHYL MYRISTOLEATE		4.0	3.0	
C16:0	METHYL PALMITATE		4.0	0.5	
C16:1T	METHYL PALMITELAIDATE		4.0	0.5	
C16:1	METHYL PALMITOLEATE		4.0	1.0	
C17:0	METHYL HEPTADECANOATE		4.0	1.0	
C18:0	METHYL STEARATE		4.0	0.5	
C18:1T	METHYL ELAIDATE		4.0	20.0	
C18:1	METHYL OLEATE		4.0	2.0	
C18:1T	METHYL PETROSELAIDATE		4.0	5.0	
C18:1T	METHYL TRANSVACCENATE	GLC 469	4.0	0.2	\$120.00 EACH
C18:2TT	METHYL LINOELAIDATE		4.0	3.0	
C18:2	METHYL LINOLEATE		4.0	6.0	
C18:2	METHYL CONJUGATED LINOLEATE		4.0	2.0	
C18:3	METHYL GAMMA LINOLENATE		4.0	1.0	
C18:3	METHYL LINOLENATE		4.0	0.5	
C20:0	METHYL ARACHIDATE		4.0	0.1	
C20:1	METHYL 11-EICOSENOATE		4.0	14.7	
C20:3	METHYL HOMOGAMMA LINOLENATE		4.0	9.0	
C20:4	METHYL ARACHIDONATE		4.0	2.0	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		4.0	5.0	
C22:0	METHYL BEHENATE		4.0	5.0	
C22:1	METHYL ERUCATE		4.0	1.0	
C18:1T	METHYL RICINELAIDATE		4.0	2.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C16:1	METHYL PALMITOLEATE		10.0	
C18:3	METHYL ALPHA LINOLENATE		15.0	
C18:3	METHYL GAMMA LINOLENATE		10.0	
C20:0	METHYL ARACHIDATE	GLC-480	15.0	\$95.00
C22:0	METHYL BEHENATE		10.0	
C22:3	METHYL DOCOSATRIENOATE		15.0	
C22:4	METHYL DOCOSATETRAENOATE		10.0	
C22:6	METHYL DOCOSAHEXAENOATE		15.0	
C14:1T	METHYL MYRISTELAIDATE		6.0	
C15:1T	METHYL 10-TRANSPENTADECENOATE		6.0	
C16:1T	METHYL PALMITELAIDATE		6.0	
C17:1T	METHYL 10-TRANSHEPTADECENOATE		6.0	
C18:1T	METHYL ELAIDATE		16.0	
C18:1T	METHYL PETROSELAIDATE		4.0	
C18:1T	METHYL TRANSVACCENATE		12.0	
C18:1T	METHYL RICINELAIDATE	GLC-481-B	8.0	\$190.00
C18:2TT	METHYL LINOELAIDATE		6.0	
C19:1T	METHYL 7-TRANSONADECENOATE		6.0	
C19:1T	METHYL 10-TRANSONADECENOATE		12.0	
C20:1T	METHYL 11-TRANSEICOSENOATE		6.0	
C22:1T	METHYL BRASSIDATE		6.0	
C14:0	METHYL MYRISTATE		6.66	
C16:0	METHYL PALMITATE		6.66	
C16:1	METHYL PALMITOLEATE		6.66	
C18:0	METHYL STEARATE		6.66	
C18:1	METHYL OLEATE		6.66	
C18:1T	METHYL ELAIDATE		6.66	
C18:2	METHYL LINOLEATE		6.66	
C18:3	METHYL ALPHA LINOLENATE	GLC-484	6.66	\$90.00
C18:3	METHYL GAMMA LINOLENATE		6.66	
C20:4	METHYL ARACHIDONATE		6.66	
C20:5	METHYL EICOSAPENTAENOATE		6.66	
C22:5N3	METHYL DOCOSAPENTAENOATE		6.66	
C22:6	METHYL DOCOSAHEXAENOATE		6.66	
C24:0	METHYL LIGNOCERATE		6.66	
C24:1	METHYL NERVONATE		6.66	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C14:0	METHYL MYRISTATE		3.85	
C16:0	METHYL PALMITATE		3.85	
C16:1	METHYL PALMITOLEATE		3.85	
C17:0	METHYL HEPTADECANOATE		3.85	
C18:0	METHYL STEARATE		3.85	
C18:1	METHYL OLEATE		3.85	
C18:1	METHYL VACCENATE		3.85	
C18:2	METHYL LINOLEATE		3.85	
C18:3	METHYL ALPHA LINOLENATE		3.85	
C18:3	METHYL GAMMA LINOLENATE		3.85	
C20:0	METHYL ARACHIDATE		3.85	
C20:1	METHYL 11 EICOSENOATE		3.85	
C20:2	METHYL 11-14 EICOSADIENOATE	GLC-490	3.85	\$220.00
C20:3	METHYL 11-14-17 EICOSATRIENOATE		3.85	
C20:3	METHYL HOMOGAMMA LINOLENATE		3.85	
C22:0	METHYL BEHENATE		3.85	
C22:1	METHYL ERUCATE		3.85	
C20:4	METHYL ARACHIDONATE		3.85	
C20:5	METHYL EICOSAPENTAENOATE		3.85	
C22:2	METHYL 13-16 DOCOSADIENOATE		3.85	
C22:3	METHYL 13-16-19 DOCOSATRIENOATE		3.85	
C22:4	METHYL DOCOSATETRAENOATE		3.85	
C22:5N3	METHYL DOCOSAPENTAENOATE		3.85	
C22:6	METHYL DOCOSAHEXAENOATE		3.85	
C24:0	METHYL LIGNOCERATE		3.85	
C24:1	METHYL NERVONATE		3.85	
C14:0	METHYL MYRISTATE		2.5	
C14:1	METHYL MYRISTOLEATE		2.5	
C16:0	METHYL PALMITATE		2.5	
C16:1	METHYL PALMITOLEATE		2.5	
C18:0	METHYL STEARATE		5.0	
C18:1	METHYL OLEATE		5.0	
C18:2	METHYL LINOLEATE		5.0	
C18:3	METHYL ALPHA LINOLENATE		5.0	
C20:0	METHYL ARACHIDATE		5.0	
C20:1	METHYL 11 EICOSENOATE	GLC-502	5.0	\$110.00
C20:2	METHYL 11-14 EICOSADIENOATE		5.0	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		5.0	
C20:4	METHYL ARACHIDONATE		5.0	
C20:5	METHYL EICOSAPENTAENOATE		7.5	
C22:0	METHYL BEHENATE		5.0	
C22:1	METHYL ERUCATE		5.0	
C24:0	METHYL LIGNOCERATE		5.0	
C24:1	METHYL NERVONATE		5.0	
C22:5N3	METHYL DOCOSAPENTAENOATE		7.5	
C22:6	METHYL DOCOSAHEXAENOATE		10.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C23:0	METHYL TRICOSANOATE		33.0	
C20:5	METHYL EICOSAPENTAENOATE	GLC-529	27.0	\$165.00
C22:6	METHYL DOCOSAHEXAENOATE		40.0	
C4:0	METHYL BUTYRATE		4.76	
C5:0	METHYL VALERATE		4.76	
C6:0	METHYL HEXANOATE		4.76	
C7:0	METHYL HEPTANOATE		4.76	
C8:0	METHYL OCTANOATE		4.76	
C9:0	METHYL NONANOATE		4.76	
C10:0	METHYL DECANOATE		4.76	
C11:0	METHYL UNDECANOATE		4.76	
C12:0	METHYL LAURATE		4.76	
C13:0	METHYL TRIDECANOATE		4.76	
C14:0	METHYL MYRISTATE	GLC-532	4.76	\$65.00
C15:0	METHYL PENTADECANOATE		4.76	
C16:0	METHYL PALMITATE		4.76	
C17:0	METHYL HEPTADECANOATE		4.76	
C18:0	METHYL STEARATE		4.76	
C19:0	METHYL NONADECANOATE		4.76	
C20:0	METHYL ARACHIDATE		4.76	
C21:0	METHYL HENEICOSANOATE		4.76	
C22:0	METHYL BEHENATE		4.76	
C23:0	METHYL TRICOSANOATE		4.76	
C24:0	METHYL LIGNOCERATE		4.76	
C14:0	METHYL MYRISTATE		6.0	
C14:1	METHYL MYRISTOLEATE		1.0	
C16:0	METHYL PALMITATE		16.0	
C16:1	METHYL PALMITOLEATE		5.0	
C18:0	METHYL STEARATE		8.0	
C18:1	METHYL OLEATE		13.0	
C18:1	METHYL VACCENATE		4.0	
C18:2	METHYL LINOLEATE		2.0	
C18:3	METHYL ALPHA LINOLENATE		2.0	
C20:0	METHYL ARACHIDATE		1.0	
C20:1	METHYL 11-EICOSENOATE	GLC-538	1.0	\$80.00
C20:2	METHYL 11-14 EICOSADIENOATE		1.0	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		1.0	
C20:4	METHYL ARACHIDONATE		3.0	
C20:5	METHYL EICOSAPENTAENOATE		10.0	
C22:0	METHYL BEHENATE		1.0	
C22:1	METHYL ERUCATE		3.0	
C22:6	METHYL DOCOSAHEXAENOATE		12.0	
C23:0	METHYL TRICOSANOATE		8.0	
C24:0	METHYL LIGNOCERATE		1.0	
C24:1	METHYL NERVONATE		1.0	
C6:0	METHYL HEXANOATE		10.0	Representative of
C8:0	METHYL OCTANOATE		10.0	SAW PALMETTO
C10:0	METHYL DECANOATE		10.0	
C12:0	METHYL LAURATE		10.0	
C14:0	METHYL MYRISTATE	GLC-539	10.0	\$60.00
C16:0	METHYL PALMITATE		10.0	
C18:0	METHYL STEARATE		10.0	
C18:1	METHYL OLEATE		10.0	
C18:2	METHYL LINOLEATE		10.0	
C18:3	METHYL LINOLENATE		10.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.		PRICE/100MG
			546	546-B	
C14:1T	METHYL MYRISTELAIDATE	GLC-546	–	12.50	
C16:1T	METHYL PALMITELAIDATE		16.67	12.50	
C18:1T	METHYL TRANSVACCENATE		–	12.50	
C18:1T	METHYL PETROSELAIDATE		16.67	12.50	
C18:1T	METHYL ELAIDATE		16.67	12.50	
C18:2TT	METHYL LINOELAIDATE		16.67	12.50	
C20:1T	METHYL 11-TRANS EICOSENOATE		16.67	12.50	
C22:1T	METHYL BRASSIDATE		16.67	12.50	
			566	566-B	566-C
C8:0	METHYL OCTANOATE		4.0	3.88	1.0
C9:0	METHYL NONANOATE		1.0	0.97	1.0
C10:0	METHYL DECANOATE		2.0	1.94	2.0
C11:0	METHYL UNDECANOATE		3.0	2.91	3.0
C11:1	METHYL UNDECENOATE		1.0	0.97	1.0
C12:0	METHYL LAURATE		5.0	4.85	4.0
C12:1	METHYL DODECENOATE		3.0	2.91	–
C13:0	METHYL TRIDECANOATE		1.0	0.97	1.0
C13:1	METHYL TRIDECENOATE		2.0	1.94	2.0
C14:0	METHYL MYRISTATE		5.0	4.85	4.0
C14:1	METHYL MYRISTOLEATE		1.0	0.97	1.0
C15:0	METHYL PENTADECANOATE		3.0	2.91	3.0
C16:0	METHYL PALMITATE		5.0	4.85	5.0
C16:1	METHYL PALMITOLEATE		1.0	0.97	1.0
C17:0	METHYL HEPTADECANOATE		2.0	1.94	2.0
C17:1	METHYL HEPTADECENOATE		–	–	1.0
C18:0	METHYL STEARATE		1.0	0.97	3.0
C18:1	METHYL OLEATE		5.0	4.85	5.0
C18:1	METHYL VACCENATE		2.0	1.94	2.0
C18:2	METHYL LINOLEATE		4.0	3.88	4.0
C18:3	METHYL GAMMA LINOLENATE	GLC-566	3.0	2.91	3.0
C19:0	METHYL NONADECANOATE		–	–	2.0
C18:3	METHYL ALPHA LINOLENATE		1.0	0.97	1.0
C20:0	METHYL ARACHIDATE		4.0	3.88	4.0
C20:1	METHYL 11-EICOSENOATE		1.0	0.97	1.0
C20:2	METHYL 11-14 EICOSADIENOATE		3.0	2.91	3.0
C20:3	METHYL HOMOGAMMA LINOLENATE		2.0	1.94	2.0
C20:4	METHYL ARACHIDONATE		5.0	4.85	5.0
C20:3	METHYL 11-14-17 EICOSATRIENOATE		1.0	0.97	1.0
C22:0	METHYL BEHENATE		1.0	0.97	1.0
C22:1	METHYL ERUCATE		4.0	3.88	4.0
C20:5	METHYL EICOSAPENTAENOATE		3.0	2.91	3.0
C22:2	METHYL DOCOSADIENOATE		2.0	1.94	2.0
C22:3	METHYL DOCOSATRIENOATE		1.0	0.97	1.0
C22:4	METHYL DOCOSATETRAENOATE		4.0	3.88	4.0
C22:5 N3	METHYL DOCOSAPENTAENOATE		1.0	0.97	2.0
C22:5 N6	METHYL DOCOSAPENTAENOATE		–	2.91	3.0
C22:6	METHYL DOCOSAHEXAENOATE		5.0	4.85	5.0
C23:0	METHYL TRICOSANOATE		4.0	3.88	3.0
C24:0	METHYL LIGNOCERATE		1.0	0.97	1.0
C24:1	METHYL NERVONATE		3.0	2.91	3.0

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.					PRICE/100MG
			569	569-B	569-C	569-D	569-E	
C4:0	METHYL BUTYRATE		2.326	2.273	2.273	2.428	2.381	
C6:0	METHYL HEXANOATE		2.326	2.273	2.273	2.428	2.381	
C8:0	METHYL OCTANOATE		2.326	2.273	2.273	2.428	2.381	
C10:0	METHYL DECANOATE		2.326	2.273	2.273	2.428	2.381	
C11:0	METHYL UNDECANOATE		2.326	2.273	2.273	2.428	2.381	
C12:0	METHYL LAURATE		2.326	2.273	2.273	2.428	2.381	
C13:0	METHYL TRIDECANOATE		2.326	2.273	2.273	2.428	2.381	
C14:0	METHYL MYRISTATE		2.326	2.273	2.273	2.428	2.381	
C14:1T	METHYL MYRISTELAIDATE		2.326	2.273	2.273	2.428	2.381	
C14:1	METHYL MYRISTOLEATE		2.326	2.273	2.273	2.428	2.381	
C15:0	METHYL PENTADECANOATE		2.326	2.273	2.273	2.428	2.381	
C15:1	METHYL PENTADECENOATE		2.326	2.273	2.273	2.428	2.381	
C16:0	METHYL PALMITATE		4.652	4.546	4.546	4.856	4.762	
C16:1T	METHYL PALMITELAIDATE		2.326	2.273	2.273	2.428	2.381	
C16:1	METHYL PALMITOLEATE		2.326	2.273	2.273	2.428	2.381	
C17:0	METHYL HEPTADECANOATE		2.326	2.273	2.273	2.428	2.381	
C17:1	METHYL 10-HEPTADECENOATE		2.326	2.273	2.273	2.428	2.381	
C18:0	METHYL STEARATE		2.326	2.273	2.273	2.428	2.381	
C18:1T	METHYL ELAIDATE		2.326	2.273	2.273	2.428	2.381	
C18:1	METHYL OLEATE		2.326	2.273	2.273	2.428	2.381	
C18:2TT	METHYL LINOELAIDATE	GLC-569	2.326	2.273	2.273	2.428	2.381	
C18:2	METHYL LINOLEATE		2.326	2.273	2.273	2.428	2.381	
C18:2	METHYL CONJUGATED LINOLEATE		-	-	2.273	-	-	\$220.00 EA.
C18:3	METHYL ALPHA LINOLENATE		2.326	2.273	2.273	2.428	2.381	
C18:3	METHYL GAMMA LINOLENATE		2.326	2.273	2.273	2.428	2.381	
C20:0	METHYL ARACHIDATE		2.326	2.273	2.273	2.428	2.381	
C20:1	METHYL 11-EICOSENOATE		2.326	2.273	2.273	2.428	2.381	
C20:2	METHYL 11-14 EICOSADIENOATE		2.326	2.273	2.273	2.428	2.381	
C21:0	METHYL HENEICOSANOATE		2.326	2.273	2.273	2.428	2.381	
C22:0	METHYL BEHENATE		2.326	2.273	2.273	2.428	2.381	
C20:3	METHYL 8-11-14 EICOSATRIENOATE		2.326	2.273	2.273	2.428	2.381	
C20:4	METHYL ARACHIDONATE		2.326	2.273	2.273	0.2326	2.381	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		2.326	2.273	2.273	2.428	2.381	
C20:5	METHYL EICOSAPENTAENOATE		2.326	2.273	2.273	2.428	2.381	
C22:1	METHYL ERUCATE		2.326	2.273	2.273	2.428	2.381	
C23:0	METHYL TRICOSANOATE		2.326	2.273	2.273	0.2326	-	
C22:2	METHYL DOCOSADIENOATE		2.326	2.273	2.273	2.428	2.381	
C22:3	METHYL DOCOSATRIENOATE		2.326	2.273	2.273	2.428	2.381	
C22:4	METHYL DOCOSATETRAENOATE		2.326	2.273	2.273	2.428	2.381	
C22:5N6	METHYL DOCOSAPENTAENOATE		-	2.273	--	-	-	
C22:5N3	METHYL DOCOSAPENTAENOATE		2.326	2.273	2.273	2.428	2.381	
C24:0	METHYL LIGNOCERATE		2.326	2.273	2.273	2.428	2.381	
C24:1	METHYL NERVONATE		2.326	2.273	2.273	2.428	2.381	
C22:6	METHYL DOCOSAHEXAENOATE		2.326	2.273	2.273	2.428	2.381	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.		PRICE/100MG
			603	603-B	
C4:0	METHYL BUTYRATE		2.0	2.04	
C6:0	METHYL CAPRONATE		1.5	2.04	
C8:0	METHYL CAPRYLATE		1.0	2.04	
C10:0	METHYL CAPRATE		2.0	2.04	
C11:0	METHYL UNDECANOATE		-	2.04	
C12:0	METHYL LAURATE		3.0	2.04	
C14:0	METHYL MYRISTATE		7.0	2.04	
C14:1T	METHYL TRANSMYRISTELAIDATE		0.5	2.04	
C14:1	METHYL MYRISTOLEATE		2.0	2.04	
C15:0	METHYL PENTADECANOATE		1.0	2.04	
C15:1T	METHYL 10-TRANSPENTADECENOATE		0.5	2.04	
C15:1	METHYL 10-PENTADECENOATE		1.0	2.04	
C16:0	METHYL PALMITATE		19.0	2.04	
C16:1T	METHYL PALMITELAIDATE		1.0	2.04	
C16:1	METHYL PALMITOLEATE		4.0	2.04	
C17:0	METHYL HEPTADECANOATE		1.0	2.04	
C17:1T	METHYL 10--TRANSHEPTADECENOATE		1.0	2.04	
C17:1	METHYL 10-HEPTADECENOATE		1.0	2.04	
C18:0	METHYL STEARATE		8.0	2.04	
C18:1T	METHYL PETROSELAIDATE		1.0	2.04	
C18:1T	METHYL ELAIDATE		1.0	2.04	
C18:1T	METHYL TRANSVACCENATE		1.0	2.04	
C18:1	METHYL PETROSELINATE		0.5	2.04	
C18:1	METHYL OLEATE		20.0	2.04	
C18:1	METHYL VACCENATE	GLC-603	1.0	2.04	\$245.00
C19:0	METHYL NONADECANOATE		2.0	2.04	
C18:2TT	METHYL LINOELAIDATE		0.5	2.04	
C19:1T	METHYL 7-TRANSNONADECENOATE		0.5	2.04	
C19:1T	METHYL 10-TRANSNONADECENOATE		0.5	2.04	
C18:2	METHYL LINOLEATE		3.0	2.04	
C20:0	METHYL ARACHIDATE		2.0	2.04	
C18:3	METHYL GAMMA LINOLENATE		0.5	2.04	
C20:1T	METHYL 11-TRANSEICOSENOATE		0.5	2.04	
C18:3	METHYL ALPHA LINOLENATE		2.0	2.04	
C20:1	METHYL 8-EICOSENOATE		0.5	2.04	
C20:1	METHYL 11-EICOSENOATE		-	2.04	
C18:2	METHYL CONJUGATED LINOLEATE 99%		1.0	2.04	
C20:2	METHYL 11-14 EICOSADIENOATE		0.5	2.04	
C22:0	METHYL BEHENATE		0.5	2.04	
C22:1T	METHYL BRASSIDATE		0.5	2.04	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		0.5	2.04	
C22:1	METHYL ERUCATE		0.5	2.04	
C20:4	METHYL ARACHIDONATE		0.5	2.04	
C23:0	METHYL TRICOSANOATE		0.5	2.04	
C22:2	METHYL DOCOSADIENOATE		0.5	2.04	
C20:5	METHYL EICOSAPENTAENOATE		0.5	2.04	
C24:0	METHYL LIGNOCERATE		0.5	2.04	
C24:1	METHYL NERVONOATE		0.5	2.04	
C22:6	METHYL DOCOSAHEXAENOATE		0.5	2.04	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C4:0	METHYL BUTYRATE		3.0	
C6:0	METHYL CAPRONATE		1.5	
C8:0	METHYL CAPRYLATE		1.0	
C10:0	METHYL CAPRATE		2.0	
C12:0	METHYL LAURATE		3.0	
C12:1	METHYL DODECENOATE		0.2	
C14:0	METHYL MYRISTATE		10.0	
C14:1	METHYL MYRISTOLEATE		1.0	
C15:0	METHYL PENTADECANOATE		1.0	
C16:0	METHYL PALMITATE		28.0	
C16:1	METHYL PALMITOLEATE		2.0	
C17:0	METHYL HEPTADECANOATE		0.7	
C17:1	METHYL 10-HEPTADECENOATE		0.3	
C18:0	METHYL STEARATE		14.0	
C18:1T	METHYL ELAIDATE		20.0	
C19:0	METHYL NONADECANOATE		0.5	
C18:2	METHYL LINOLEATE		3.5	
C20:0	METHYL ARACHIDATE		0.2	
C18:3	METHYL ALPHA LINOLENATE	GLC-606	0.2	\$170.00
C20:1	METHYL 11-EICOSENOATE		0.3	
C18:3	METHYL GAMMA LINOLENATE		0.8	
C18:2	METHYL CONJUGATED LINOLEATE 99%		3.5	
C20:2	METHYL 11-14 EICOSADIENOATE		0.2	
C22:0	METHYL BEHENATE		0.2	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		0.3	
C20:3	METHYL HOMOGAMMA LINOLENATE		0.2	
C22:1	METHYL ERUCATE		0.1	
C20:4	METHYL ARACHIDONATE		0.2	
C22:2	METHYL DOCOSADIENOATE		0.3	
C22:3	METHYL DOCOSATRIENOATE		0.2	
C24:0	METHYL LIGNOCERATE		0.2	
C20:5	METHYL EICOSAPENTAENOATE		0.3	
C24:1	METHYL NERVONATE		0.2	
C22:4	METHYL DOCOSATETRAENOATE		0.1	
C22:5n6	METHYL DOCOSAPENTAENOATE		0.3	
C22:5n3	METHYL DOCOSAPENTAENOATE		0.3	
C22:6	METHYL DOCOSAHEXAENOATE		0.2	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C4:0	METHYL BUTYRATE		2.5	
C6:0	METHYL HEXANOATE		2.5	
C8:0	METHYL OCTANOATE		2.5	
C10:0	METHYL DECANOATE		2.5	
C11:0	METHYL UNDECANOATE		2.5	
C12:0	METHYL LAURATE		2.5	
C13:0	METHYL TRIDECANOATE		2.5	
C14:0	METHYL MYRISTATE		2.5	
C14:1	METHYL MYRISTOLEATE		2.5	
C14:1T	METHYL MYRISTELAIDATE		2.5	
C15:0	METHYL PENTADECANOATE		2.5	
C15:1	METHYL 10-PENTADECENOATE		2.5	
C16:0	METHYL PALMITATE		5.0	
C16:1T	METHYL PALMITELAIDATE		2.5	
C16:1	METHYL PALMITOLEATE		2.5	
C17:0	METHYL HEPTADECANOATE		2.5	
C17:1	METHYL 10-HEPTADECENOATE		2.5	
C18:0	METHYL STEARATE		2.5	
C18:1T	METHYL PETROELAIDATE		2.5	
C18:1T	METHYL ELAIDATE	GLC-607	2.5	\$170.00
C18:1T	METHYL TRANSVACCENATE		2.5	
C18:1	METHYL PETROSELINATE		2.5	
C18:1	METHYL VACCENATE		2.5	
C18:1	METHYL OLEATE		2.5	
C18:2TT	METHYL LINOELAIDATE		2.5	
C18:2	METHYL LINOLEATE		2.5	
C18:3	METHYL ALPHA LINOLENATE		2.5	
C18:3	METHYL GAMMA LINOLENATE		2.5	
C20:0	METHYL ARACHIDATE		2.5	
C20:1	METHYL 11-EICOSENOATE		2.5	
C20:2	METHYL 11-14 EICOSADIENOATE		2.5	
C22:0	METHYL BEHENATE		2.5	
C22:1	METHYL ERUCATE		2.5	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		2.5	
C20:3	METHYL HOMOGAMMA LINOLENATE		2.5	
C20:4	METHYL ARACHIDONATE		2.5	
C24:1	METHYL NERVONATE		2.5	
C22:2	METHYL DOCOSADIENOATE		2.5	
C22:6	METHYL DOCOSAHEXAENOATE		2.5	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C4:0	METHYL BUTYRATE		2.0	
C6:0	METHYL HEXANOATE		2.0	
C8:0	METHYL OCTANOATE		2.0	
C10:0	METHYL DECANOATE		4.0	
C11:0	METHYL UNDECANOATE		2.0	
C12:0	METHYL LAURATE		4.0	
C13:0	METHYL TRIDECANOATE		2.0	
C14:0	METHYL MYRISTATE		2.0	
C14:1	METHYL MYRISTOLEATE		2.0	
C15:0	METHYL PENTADECANOATE		2.0	
C15:1	METHYL 10-PENTADECENOATE		2.0	
C16:0	METHYL PALMITATE		4.0	
C16:1	METHYL PALMITOLEATE		2.0	
C17:0	METHYL HEPTADECANOATE		4.0	
C17:1	METHYL 10-HEPTADECENOATE		2.0	
C18:0	METHYL STEARATE		4.0	
C18:1T	METHYL ELAIDATE		2.0	
C18:1	METHYL OLEATE		4.0	
C18:2TT	METHYL LINOELAIDATE		2.0	
C18:2	METHYL LINOLEATE		2.0	
C20:0	METHYL ARACHIDATE	GLC-617	4.0	\$220.00
C18:3	METHYL GAMMA LINOLENATE		4.0	
C20:1	METHYL 11-EICOSENOATE		2.0	
C18:3	METHYL ALPHA LINOLENATE		2.0	
C21:0	METHYL HENEICOSANOATE		2.0	
C20:2	METHYL 11-14 EICOSADIENOATE		2.0	
C22:0	METHYL BEHENATE		4.0	
C20:3	METHYL HOMOGAMMA LINOLENATE		2.0	
C22:1	METHYL ERUCATE		2.0	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		2.0	
C20:4	METHYL ARACHIDONATE		2.0	
C23:0	METHYL TRICOSANOATE		2.0	
C22:2	METHYL DOCOSADIENOATE		2.0	
C20:5	METHYL EICOSAPENTAENOATE		2.0	
C22:4	METHYL DOCOSATETRAENOATE		2.0	
C22:5n-6	METHYL DOCOSAPENTAENOATE		2.0	
C22:5n-3	METHYL DOCOSAPENTAENOATE		2.0	
C24:0	METHYL LIGNOCERATE		4.0	
C24:1	METHYL NERVONOATE		2.0	
C22:6	METHYL DOCOSAHEXAENOATE		2.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C18:3	METHYL ALPHA LINOLENATE		16.67	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		16.67	
C22:3	METHYL DOCOSATRIENOATE	GLC-642	16.67	
C20:5	METHYL EICOSAPENTAENOATE	(OMEGA 3 STANDARD)	16.67	\$220.00
C22:5	METHYL DOCOSAPENTAENOATE		16.67	
C22:6	METHYL DOCOSAHEXAENOATE		16.67	
C18:2	METHYL LINOLEATE		11.11	
C18:3	METHYL GAMMA LINOLENATE		11.11	
C19:2	METHYL NONADECADIENOATE		11.11	
C20:2	METHYL 11-14 EICOSADIENOATE	GLC-643	11.11	
C20:3	METHYL HOMOGAMMA LINOLENATE	(OMEGA 6 STANDARD)	11.11	\$220.00
C20:4	METHYL ARACHIDONATE		11.11	
C22:2	METHYL DOCOSADIENOATE		11.11	
C22:4	METHYL DOCOSATETRAENOATE		11.11	
C22:5	METHYL DOCOSAPENTAENOATE		11.11	
C18:1	METHYL OLEATE		9.09	
C18:1T	METHYL ELAIDATE		9.09	
C19:1	METHYL 10-NONADECENOATE		9.09	
C19:1T	METHYL 10-TRANSNONADECENOATE		9.09	
C20:1	METHYL 11-EICOSENOATE	GLC-813	9.09	
C20:1T	METHYL TRANS 11-EICOSENOATE	(OMEGA 9 STANDARD)	9.09	\$220.00
C22:1	METHYL ERUCATE		9.09	
C22:1T	METHYL BRASSIDATE		9.09	
C21:1	METHYL 12-HENEICOSENOATE		9.09	
C23:1	METHYL 14-TRICOSENOATE		9.09	
C24:1	METHYL NERVONATE		9.09	
C14:1	METHYL MYRISTOLEATE	GLC-869	50.00	
C15:1	METHYL 10-PENTADECENOATE	(OMEGA 5 STANDARD)	50.00	\$195.00
C16:1	METHYL PALMITOLEATE		33.34	
C17:1	METHYL 10-HEPTADECENOATE	GLC-870	33.34	
C18:1	METHYL VACENATE	(OMEGA 7 STANDARD)	33.34	\$90.00

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C4:0	METHYL BUTYRATE		2.0	
C6:0	METHYL CAPROATE		2.0	
C8:0	METHYL CAPRYLATE		2.0	
C10:0	METHYL CAPRATE		1.0	
C11:0	METHYL UNDECANOATE		2.0	
C12:0	METHYL LAURATE		1.0	
C13:0	METHYL TRIDECANOATE		2.0	
C14:0	METHYL MYRISTATE		2.0	
C14:1	METHYL MYRISTOLEATE		2.0	
C14:1T	METHYL MYRISTELAIDATE		1.0	
C15:0	METHYL PENTADECANOATE		2.0	
C15:1	METHYL 10-PENTADECENOATE		2.0	
C15:1T	METHYL 10-TRANSPENTADECENOATE		1.0	
C16:0	METHYL PALMITATE		3.0	
C16:1	METHYL PALMITOLEATE		2.0	
C16:1T	METHYL PALMITELAIDATE		1.0	
C17:0	METHYL HEPTADECANOATE		3.0	
C17:1	METHYL 10-HEPTADECENOATE		2.0	
C17:1T	METHYL 10-TRANSHEPTADECENOATE		2.0	
C18:0	METHYL STEARATE		2.0	
C18:1	METHYL OLEATE		2.0	
C18:1	METHYL PETROSELINATE		2.0	
C18:1T	METHYL PETROSELAIDATE		2.0	
C18:1	METHYL VACCENATE		2.0	
C18:1T	METHYL TRANSVACCENATE		1.0	
C18:1T	METHYL ELAIDATE	GLC-674	3.0	\$270.00
C18:2	METHYL LINOLEATE		3.0	
C18:2TT	METHYL LINOELAIDATE		2.0	
C19:1T	METHYL 10-TRANSNONADECENOATE		2.0	
C19:1T	METHYL 7-TRANSNONADECENOATE		1.0	
C20:0	METHYL ARACHIDATE		2.0	
C18:3	METHYL GAMMA LINOLENATE		3.0	
C20:1	METHYL 11-EICOSENOATE		2.0	
C20:1T	METHYL TRANS 11-EICOSENOATE		1.0	
C18:3	METHYL ALPHA LINOLENATE		3.0	
C21:0	METHYL HENEICOSANOATE		2.0	
C20:2	METHYL 11-14 EICOSADIENOATE		3.0	
C22:0	METHYL BEHENATE		1.0	
C20:3	METHYL HOMOGAMMA LINOLENATE		2.0	
C22:1	METHYL ERUCATE		2.0	
C22:1T	METHYL BRASSIDATE		1.0	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		2.0	
C20:4	METHYL ARACHIDONATE		3.0	
C23:0	METHYL TRICOSANOATE		2.0	
C22:2	METHYL DOCOSADIENOATE		2.0	
C20:5	METHYL EICOSAPENTAENOATE		2.0	
C22:4	METHYL DOCOSATETRAENOATE		2.0	
C22:5n-6	METHYL DOCOSAPENTAENOATE		2.0	
C22:5n-3	METHYL DOCOSAPENTAENOATE		2.0	
C24:0	METHYL LIGNOCERATE		1.0	
C24:1	METHYL NERVONOATE		1.0	
C22:6	METHYL DOCOSAHEXAENOATE		2.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C13:0	METHYL TRIDECANOATE		3.7	
C14:0	METHYL MYRISTATE		3.7	
C15:0	METHYL PENTADECANOATE		3.7	
C16:0	METHYL PALMITATE		3.7	
C16:1	METHYL PALMITOLEATE		3.7	
C17:0	METHYL HEPTADECANOATE		3.7	
C18:0	METHYL STEARATE		3.7	
C18:1	METHYL OLEATE		3.7	
C18:2	METHYL LINOLEATE		3.7	
C18:3	METHYL GAMMA LINOLENATE		3.7	
C18:3	METHYL ALPHA LINOLENATE		3.7	
C20:0	METHYL ARACHIDATE		3.7	
C20:1	METHYL 11-EICOSENOATE	GLC-682	3.7	\$270.00
C20:2	METHYL 11-14 EICOSADIENOATE		3.7	
C20:3	METHYL HOMOGAMMA LINOLENATE		3.7	
C20:4	METHYL ARACHIDONATE		3.7	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		3.7	
C22:0	METHYL BEHENATE		3.7	
C22:1	METHYL ERUCATE		3.7	
C22:2	METHYL DOCOSADIENOATE		3.7	
C22:3	METHYL DOCOSATRIENOATE		3.7	
C22:4	METHYL DOCOSATETRAENOATE		3.7	
C22:5n-6	METHYL DOCOSAPENTAENOATE		3.7	
C22:5n-3	METHYL DOCOSAPENTAENOATE		3.7	
C24:0	METHYL LIGNOCERATE		3.7	
C24:1	METHYL NERVONATE		3.7	
C22:6	METHYL DOCOSAHEXAENOATE		3.7	
C14:0	METHYL MYRISTATE		5.0	POLYSORBATE 80
C16:0	METHYL PALMITATE		10.0	
C18:0	METHYL STEARATE		15.0	
C20:0	METHYL ARACHIDATE	GLC-708	20.0	\$60.00
C18:1	METHYL OLEATE		20.0	
C20:1	METHYL 11-EICOSENOATE		10.0	
C22:0	METHYL BEHENATE		10.0	
C24:0	METHYL LIGNOCERATE		10.0	
C12:0	METHYL LAURATE		5.0	
C14:0	METHYL MYRISTATE		5.0	
C16:0	METHYL PALMITATE	GLC-709	10.0	\$60.00
C18:0	METHYL STEARATE		20.0	
C20:0	METHYL ARACHIDATE		40.0	
C18:1	METHYL OLEATE		20.0	
C14:0	METHYL MYRISTATE		5.0	POLYSORBATE 80
C16:0	METHYL PALMITATE		16.0	
C16:1	METHYL PALMITOLEATE		8.0	
C18:0	METHYL STEARATE	GLC-710	6.0	\$60.00
C18:1	METHYL OLEATE		42.0	
C18:2	METHYL LINOLEATE		18.0	
C18:3	METHYL LINOLENATE		5.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C8:0	METHYL OCTANOATE		4.0	
C10:0	METHYL DECANOATE		4.0	
C12:0	METHYL LAURATE		4.0	
C13:0	METHYL TRIDECANOATE		4.0	
C14:0	METHYL MYRISTATE		4.0	
C16:0	METHYL PALMITATE		4.0	
C16:1	METHYL PALMITOLEATE		4.0	
C17:0	METHYL HEPTADECENOATE		4.0	
C18:0	METHYL STEARATE		4.0	
C18:1	METHYL OLEATE		4.0	
C18:2	METHYL LINOLEATE		4.0	
C18:3	METHYL LINOLENATE		4.0	
C20:0	METHYL ARACHIDATE	GLC-714	4.0	\$110.00
C20:1	METHYL 11-EICOSENOATE		4.0	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		4.0	
C20:4	METHYL ARACHIDONATE		4.0	
C20:5	METHYL EICOSAPENTAENOATE		4.0	
C21:0	METHYL HENEICOSANOATE		4.0	
C22:0	METHYL BEHENATE		4.0	
C22:1	METHYL ERUCATE		4.0	
C22:5	METHYL DOCOSAPENTAENOATE		4.0	
C22:6	METHYL DOCOSAHEXAENOATE		4.0	
C23:0	METHYL TRICOSANOATE		4.9	
C24:0	METHYL LIGNOCERATE		4.0	
C24:1	METHYL NERVONATE		4.0	
C18:3	METHYL GAMMA LINOLENATE		20.0	
C23:0	METHYL TRICOSANOTE		20.0	
C20:5n3	METHYL EICOSAPENTAENOTE	GLC-719	20.0	\$90.00
C22:5n3	METHYL DOCOSAPENTAENOATE		20.0	
C22:6	METHYL DOCOSAHEXAENOATE		20.0	

GLC REFERENCE STANDARDS (Continued)

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C4:0	METHYL BUTYRATE		2.0	
C6:0	METHYL HEXANOATE		2.0	
C8:0	METHYL OCTANOATE		2.0	
C10:0	METHYL DECANOATE		2.0	
C12:0	METHYL LAURATE		4.0	
C13:0	METHYL TRIDECANOATE		2.0	
C14:0	METHYL MYRISTATE		2.0	
C14:1	METHYL MYRISTOLEATE		2.0	
C14:1T	METHYL MYRISTELAIDATE		2.0	
C15:0	METHYL PENTADECANOATE		2.0	
C15:1	METHYL 10-PENTADECENOATE		2.0	
C16:0	METHYL PALMITATE		4.0	
C16:1	METHYL PALMITOLEATE		2.0	
C16:1T	METHYL PALMITELAIDATE		2.0	
C17:0	METHYL HEPTADECENOATE		2.0	
C17:1	METHYL 10-HEPTADECENOATE		2.0	
C18:0	METHYL STEARATE		4.0	
C18:1T	METHYL ELAIDATE		2.0	
C18:1	METHYL OLEATE		4.0	
C18:1T	METHYL PETROELAIDATE		2.0	
C18:1T	METHYL TRANSVACCENATE		2.0	
C18:1	METHYL VACCENATE		2.0	
C18:2TT	METHYL LINOELAIDATE	GLC-744	2.0	\$295.00
C18:2	METHYL LINOLEATE		2.0	
C18:3	METHYL GAMMA LINOLENATE		2.0	
C18:3	METHYL LINOLENATE		2.0	
C20:0	METHYL ARACHIDATE		2.0	
C20:1	METHYL 11-EICOSENOATE		2.0	
C21:0	METHYL HENEICOSANOATE		2.0	
C20:2	METHYL 11-14 EICOSADIENOATE		2.0	
C20:3	METHYL HOMOGAMMA LINOLENATE		2.0	
C20:4	METHYL ARACHIDONATE		2.0	
C20:3	METHYL 11-14-17 EICOSATRIENOATE		2.0	
C22:0	METHYL BEHENATE		4.0	
C22:1	METHYL ERUCATE		2.0	
C20:5	METHYL EICOSAPENTAENOATE		2.0	
C22:2	METHYL DOCOSADIENOATE		2.0	
C23:0	METHYL TRIOSANOATE		2.0	
C22:4	METHYL DOCOSATETRAENOATE		2.0	
C22:5n-6	METHYL DOCOSAPENTAENOATE		2.0	
C22:5n-3	METHYL DOCOSAPENTAENOATE		2.0	
C24:0	METHYL LIGNOCERATE		4.0	
C24:1	METHYL NERVONATE		2.0	
C22:6	METHY DOCOSAHEXAENOATE		2.0	

GLC REFERENCE STANDARDS

CHAIN	ITEM	CATALOG #	% BY WT.	PRICE/100MG
C16:0	METHYL PALMITATE		14.8	Representative of CORN OIL
C16:1	METHYL PALMITOLEATE		0.5	
C18:0	METHYL STEARATE		2.0	
C18:1	METHYL OLEATE		30.0	
C18:2	METHYL LINOLEATE		50.0	\$60.00
C18:3	METHYL LINOLENATE	GLC-804	1.0	
C20:0	METHYL ARACHIDATE		0.5	
C20:1	METHYL 11-EICOSENOATE		0.5	
C22:0	METHYL BEHENATE		0.3	
C24:0	METHYL LIGNOCERATE		0.4	
C14:0	METHYL MYRISTATE		0.2	Representative of SOYBEAN OIL
C16:0	METHYL PALMITATE		12.0	
C16:1	METHYL PALMITOLEATE		0.3	
C18:0	METHYL STEARATE		3.7	
C18:1	METHYL OLEATE		25.0	\$60.00
C18:2	METHYL LINOLEATE	GLC-805	50.0	
C18:3	METHYL LINOLENATE		5.0	
C20:0	METHYL ARACHIDATE		1.0	
C20:1	METHYL 11-EICOSENOATE		1.0	
C22:0	METHYL BEHENATE		1.0	
C22:1	METHYL ERUCATER		0.3	
C24:0	METHYL LIGNOCERATE		0.5	

TRIGLYCERIDE STANDARDS

CHAIN	ITEM		% BY WT.	PRICE/100MG
C16:0	TRIPALMITIN		4.0	
C18:0	TRISTEARIN		2.0	
C18:1	TRIOLEIN		61.0	
C18:2	TRILINOLEIN		21.0	
C18:3	TRI ALPHA LINOLENIN	GLC-406	9.0	\$70.00
C20:0	TRIARACHIDIN		1.0	
C20:1	TRIEICOSENOIN		1.0	
C22:1	TRIERUCIN		1.0	
C16:0	TRIPALMITIN		10.0	
C18:0	TRISTEARIN		3.0	
C18:1	TRIOLEIN		51.0	
C18:2	TRILINOLEIN	GLC-21A	30.0	\$65.00
C20:0	TRIARACHIDIN		1.5	
C20:1	TRIEICOSENOIN		1.5	
C22:0	TRIBEHENIN		3.0	
C16:0	TRIPALMITIN		16.67	
C18:0	TRISTEARIN		16.67	
C18:1	TRIOLEIN		16.67	
C18:2	TRILINOLEIN	GLC-437	16.67	\$80.00
C18:3	TRI ALPHA LINOLENIN		16.67	
C20:0	TRIARACHIDIN		16.67	
C8:0	TRICAPRYLIN		16.67	
C10:0	TRICAPRIN		16.67	
C12:0	TRILAURIN	GLC-570	16.67	\$65.00
C14:0	TRIMYRISTIN		16.67	
C16:0	TRIPALMITIN		16.67	
C18:0	TRISTEARIN		16.67	
C8:0	TRIOCTANOIN		6.66	
C9:0	TRINONANOIN		6.66	
C10:0	TRIDECANOIN		6.66	
C11:0	TRIUNDECANOIN		6.66	
C12:0	TRILAURIN		6.66	
C13:0	TRITRIDECANOIN		6.66	
C14:0	TRIMYRISTIN		6.66	
C15:0	TRIPENTADECANOIN	GLC-768	6.66	\$75.00
C16:0	TRIPALMITIN		6.66	
C17:0	TRIHEPTADECANOIN		6.66	
C18:0	TRISTEARIN		6.66	
C19:0	TRINONADECANOIN		6.66	
C20:0	TRIARACHIDIN		6.66	
C21:0	TRIHENEICOSANOIN		6.66	
C22:0	TRIBEHENIN		6.66	

TLC-REFERENCE STANDARDS*

Upon request, our glass-blowing department will seal your 100 mg ampule (at no extra charge) into 2 by 50 mg or 4 by 25 mg quantities. This special service is designed to assist TLC analysts in avoiding oxidation, especially when working with unsaturated standards.

PRICE/100 MG \$55.00 EACH

CHAIN	ITEM	CATALOG #	% BY WT. AS INDICATED		
			A	B	C
	MONOCAPRYLIN	8-0 A	25		
	DICAPRYLIN		25		
	TRICAPRYLIN		25		
	CAPRYLIC ACID (OCTANOIC)		25		
	MONOCAPRIN	10-0 A	25		
	DICAPRIN		25		
	TRICAPRIN		25		
	CAPRIC ACID (DECANOIC)		25		
	MONOLAURIN	12-0	25	15	40
	DILAURIN		25	20	25
	TRILAURIN		25	25	20
	METHYL LAURATE		25	40	15
	MONOMYRISTIN	14-0	25	15	40
	DIMYRISTIN		25	20	25
	TRIMYRISTIN		25	25	20
	METHYL MYRISTIN		25	40	15
	MONOPALMITIN	16-0	25	15	40
	DIPALMITIN		25	20	25
	TRIPALMITIN		25	25	20
	METHYL PALMITATE		25	40	15
	MONOPALMITIN	16-1 A	14.2		
	DIPALMITIN		14.2		
	TRIPALMITIN		14.2		
	PALMITIC ACID		14.2		
	CHOLESTEROL		14.2		
	CHOLESTERYL PALMITATE		14.2		
	LECITHIN (L-A-DISTEAROYL)		14.2		
	MONOSTEARIN	18-0	25	15	40
	DISTEARIN		25	20	25
	TRISTEARIN		25	25	20
	METHYL STEARATE		25	40	15
	MONOOLEIN	18-1	25	15	40
	DIOLEIN		25	20	25
	TRIOLEIN		25	25	20
	METHYL OLEATE		25	40	15
	MONO ALPHA LINOLEIN	18-2	25	15	40
	DILINOLEIN		25	20	25
	TRILINOLEIN		25	25	20
	METHYL LINOLEATE		25	40	15
	MONOLINOLENIN	18-3 ALPHA	25	15	40
	DILINOLENIN		25	20	25
	TRILINOLENIN		25	25	20
	METHYL LINOLENATE		25	40	15
	CHOLESTEROL	18-4	20	5	35
	OLEIC ACID		20	25	15
	TRIOLEIN		20	20	20
	METHYL OLEATE		20	35	5
	CHOLESTERYL OLEATE		20	15	25
	LECITHIN (1, 2 DISTEAROYL)	18-5	20		5
	CHOLESTEROL		20		35
	OLEIC ACID		20		15
	TRIOLEIN		20		20
	CHOLESTERYL OLEATE		20		25
	OLEIC ACID	18-6	25	15	40
	MONOOLEIN		25	20	25
	DIOLEIN		25	25	20
	TRIOLEIN		25	40	15

*MONO AND DIGLYCERIDES MAY CONTAIN BOTH ISOMERS

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