



Food Analysis

Food Constituents, Lipid Standards

Food chemists routinely use AccuStandard's Analytical Reference Standards for their food analysis. These include Lipid Standards, Vitamin Standards, Preservative Standards and Antimicrobial Standards. Each Standard is methodically prepared, undergoes various quality control analysis and procedures and is then packaged under the strict guidelines of our ISO 9001 and ISO 17025 Quality System.



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- High Purity confirmed by GLC & TLC
- Packaged in Sealed Ampules under Nitrogen Blanket

- Certificate of Analysis

Unsaturated Methyl Esters

99% minimum purity Compound	(Storage: -20°C, protect from light) CAS No.	Neat 100 mg	Each 10 mg/mL in Hexane Solution 1 mL
Methyl cis-9-hexadecenoate (<i>Palmitoleate</i>) C16:1	1120-25-8	UFA-001N	UFA-001S
Methyl trans-9-hexadecenoate C16:1	10030-74-7	UFA-002N	UFA-002S
Methyl cis-6-octadecenoate (<i>Petroselinate</i>) C18:1	2777-58-4	UFA-003N	UFA-003S
Methyl trans-6-octadecenoate (<i>Petroselaidate</i>) C18:1		UFA-004N	UFA-004S
Methyl cis-9-octadecenoate (<i>Oleate</i>) C18:1	112-62-9	UFA-005N	UFA-005S
Methyl trans-9-octadecenoate (<i>Elaidate</i>) C18:1	2462-84-2	UFA-006N	UFA-006S
Methyl cis-11-octadecenoate (<i>Vaccenate</i>) C18:1	1937-63-9	UFA-007N	UFA-007S
Methyl 12-hydroxy-cis-9-octadecenoate (<i>Ricinoleate</i>) C18:1	141-24-2	UFA-008N	UFA-008S
Methyl linoleate (<i>Linoleate</i>) C18:2	112-63-0	UFA-010N	UFA-010S
Methyl linolelaidate (<i>Linoelaidate</i>) C18:2	2566-97-4	UFA-011N	UFA-011S
Methyl octadecadienoate (<i>Conjugated</i>) C18:2		UFA-012N ‡	UFA-012S
Methyl linolenate (<i>Linolenate</i>) C18:3	301-00-8	UFA-014N ‡	UFA-014S
Methyl g-linolenate (<i>Gamma Linolenate</i>) C18:3	16326-32-2	UFA-015N ‡	UFA-015S
Methyl trans-11-eicosenoate C20:1	69119-90-0	UFA-016N	UFA-016S
Methyl cis-8-eicosenoate C20:1	69119-99-9	UFA-017N	UFA-017S
Methyl cis-11-eicosenoate C20:1	2390-09-2	UFA-018N	UFA-018S
Methyl cis-5-eicosenoate C20:1	20839-34-3	UFA-019N	UFA-019S
Methyl cis-11,14-eicosadienoate C20:2	2463-02-7	UFA-020N ‡	UFA-020S
Methyl cis-8,11,14-eicosatrienoate (<i>Homogamma linolenate</i>) C20:3	1783-84-2	UFA-022N ‡	UFA-022S ‡
Methyl cis-11,14,17-eicosatrienoate C20:3	55682-88-7	UFA-023N ‡	UFA-023S ‡
Methyl arachidonate (<i>Arachidonate</i>) C 20:4	2566-89-4	UFA-024N ‡	UFA-024S
Methyl 5,8,11,14,17-Eicosapentaenoate C20:5	2734-47-6	UFA-025N ‡	UFA-025S ‡
Methyl cis-7,10,13,16,19-Docosapentaenoate (DPA) C22:5	108698-02-8	UFA-026N ‡	UFA-026S ‡
Methyl cis-13-docosenoate(<i>Erucate</i>) C22:1	1120-34-9	UFA-027N	UFA-027S
Methyl trans-13-docosenoate (<i>Brassicdate</i>) C22:1	7439-44-3	UFA-028N	UFA-028S
Methyl cis-13,16-docosadienoate C22:2	61012-47-3	UFA-029N ‡	UFA-029S
Methyl cis-13,16,19-docosatrienoate C22:3	108698-01-7	UFA-030N ‡	UFA-030S ‡
Methyl cis-7,10,13,16-Docosatetraenoate C22:4	13487-42-8	UFA-031N ‡	UFA-031S ‡
Methyl cis-4,7,10,13,16,19-Docosahexenoate C22:6 95%	301-01-9	UFA-032N ‡	UFA-032S ‡
Methyl cis-15-tetracosenoate (<i>Nervonate</i>) C24:1	2733-88-2	UFA-033N	UFA-033S
Set of Unsaturated Fatty Acid Methyl Ester (UFA-001 to UFA-033)	1 x 30 units	UFA-N-SET ‡	UFA-S-SET ‡

‡ To delay premature breakdown of thermally labile products in transit we suggest shipping with a "Cold Pack"

Lipid Standards analyzed by both GLC and TLC are supplied with complete analytical documentation.

Food Analysis

Lipid Standards



Saturated Methyl Esters

Compound	CAS No.	Neat	10 mg/mL in Hexane	
		100 mg	Solution	1 mL
Methyloctanoate (<i>Caprylate</i>) C8:0	111-11-5	SFA-001N	SFA-001S	
Methylnonoate (<i>Pelargonate</i>) C9:0	1731-84-6	SFA-002N	SFA-002S	
Methyldecanoate (<i>Caprate</i>) C10:0	110-42-9	SFA-003N	SFA-003S	
Methylundecanoate C11:0	1731-86-8	SFA-004N	SFA-004S	
Methyldodecanoate (<i>Laurate</i>) C12:0	111-82-0	SFA-005N	SFA-005S	
Methyltridecanoate C13:0	1731-88-0	SFA-006N	SFA-006S	
Methyltetradecanoate (<i>Myristate</i>) C14:0	124-10-7	SFA-007N	SFA-007S	
Methylpentadecanoate C15:0	7132-64-1	SFA-008N	SFA-008S	
Methylhexadecanoate (<i>Palmitate</i>) C16:0	112-39-0	SFA-009N	SFA-009S	
Methylheptadecanoate (<i>Margarate</i>) C17:0	1731-92-6	SFA-010N	SFA-010S	
Methyloctadecanoate (<i>Stearate</i>) C18:0	112-61-8	SFA-011N	SFA-011S	
Methyl 12-hydroxystearate C18:0	141-23-1	SFA-012N	SFA-012S	
Methylnonadecanoate C19:0	1731-94-8	SFA-013N	SFA-013S	
Methyleicosanoate (<i>Arachidate</i>) C20:0	1120-28-1	SFA-014N	SFA-014S	
Methylheneicosanoate C21:0	6064-90-0	SFA-015N	SFA-015S	
Methyldocosanoate (<i>Behenate</i>) C22:0	929-77-1	SFA-016N	SFA-016S	
Methyltricosanoate C23:0	2433-97-8	SFA-017N	SFA-017S	
Methyltetracosanoate (<i>Lignocerate</i>) C24:0	2442-49-1	SFA-018N	SFA-018S	
Set of Saturated Fatty Acids Methyl ester (SFA-001 to SFA-018)	1 x 18 units	SFA-N-SET	SFA-S-SET	

Cold Packs

Cold packs may be recommended or required with certain temperature sensitive products. Some standards are susceptible to change at room temperature or higher. In some of these cases, AccuStandard may recommend or require that these products ship in a "Cold Pak" (styrofoam container that has an ice pack in it). The purpose of the Cold Pak is to delay the exposure of the product to higher temperatures, and NOT to keep the product frozen. The product will not immediately go out of specifications when the Cold Pak melts or when the product reaches room temperature. The Cold Pak simply delays exposure to higher temperatures. When a product is shipped with a Cold Pak, the customer should also consider requesting next-day delivery (where available) and should avoid having the shipment sent on a Friday unless it is approved for Saturday Delivery.

Glycerides

Saturated Glycerides

Compound	CAS No.	Neat
		100 mg
Trioctanoin (<i>Caprylin</i>) C8:0	538-23-8	GS-001N
Dicaprylin C8:0	36354-80-0	GS-002N
Monocaprylin C8:0	19670-49-6	GS-003N
Tridecanoin (<i>Caprin</i>) C10:0	621-71-6	GS-004N
Dicaprin C10:0	53988-07-1	GS-005N
Monocaprin C10:0	26402-22-2	GS-006N
Tridodecanoin (<i>Laurin</i>) C12:0	538-24-9	GS-007N
Dilaurin C12:0	27638-00-2	GS-008N
Monolaurin C12:0	142-18-7	GS-009N
Tritetradecanoin (<i>Myristin</i>) C14:0	555-45-3	GS-010N
Dimyristin C14:0	53563-63-6	GS-011N
Monomyristin C14:0	589-68-4	GS-012N
Trihexadecanoin (<i>Palmitin</i>) C16:0	555-44-2	GS-013N
Dipalmitin C16:0	26657-95-4	GS-014N
Monopalmitin C16:0	542-44-9	GS-015N
Trioctadecanoin (<i>Stearin</i>) C18:0	555-43-1	GS-016N
Distearin C18:0	1323-83-7	GS-017N
Monostearin C18:0	22610-63-5	GS-018N
Trieicosanoin (<i>Arachidin</i>) C20:0	620-64-4	GS-019N
Diarachidin C20:0	60586-60-9	GS-020N
Monoarachidin C20:0		GS-021N
Tridocosanoin (<i>Behenin</i>) C22:0	18641-57-1	GS-022N
Dibehenin C22:0		GS-023N
Monobehenin C22:0	6916-74-1	GS-024N
Set of Saturated glyceride (GS-001 to GS-024)	1 x 24 units	GS-SET

Unsaturated Glycerides

Compound	CAS No.	Neat
		10 mg
Myristolein C14:1 cis		UG-001N
Dimyristolein C14:1		UG-002N
Monomyristolein C14:1	56399-71-4	UG-003N
Palmitolein C16:1 cis	20246-55-3	UG-004N
Dipalmitolein C16:1	113728-10-2	UG-005N
Monopalmitolein C16:1	37515-61-0	UG-006N
Petroselinin 6 C18:1 cis	3296-43-3	UG-007N
Dipetroselinin 6 C18:1		UG-008N
Monopetroselinin 6 C18:1		UG-009N
Olein 9 C18:1 cis	122-32-7	UG-010N
Dirolein 9 C18:1	25637-84-7	UG-011N
Monolein 9 C18:1	111-03-5	UG-012N
Trielaidin 9 C18:1 trans	537-39-3	UG-013N
Dielaidin 9 C18:1 trans	98168-52-6	UG-014N
Monoelaidin 9 C18:1 trans	2716-53-2	UG-015N
Vaccenin 11 C18:1 cis		UG-016N
Divaccenin 11 C18:1		UG-017N
Monovaccenin 11 C18:1		UG-018N
Linolein C18:2 cis,cis	537-40-6	UG-019N ‡
Dilinolein C18:2	30606-27-0	UG-020N ‡
Monolinolein C18:2	2277-28-3	UG-021N ‡
Linolenin C18:3 cis,cis,cis	14465-68-0	UG-022N ‡
Dilinoilenin C18:3		UG-023N ‡
Monolinolenin C18:3	75685-75-5	UG-024N ‡
Gamma linolenin C18:3 cis,cis,cis		UG-025N ‡
Gamma di-linolenin C18:3		UG-026N ‡
Gamma mono-linolenin C18:3		UG-027N ‡
Triecosenoin C20:1 cis	80380-39-8	UG-028N
Dieicosenoin C20:1	102783-82-4	UG-029N
Monoeicosenoin C20:1		UG-030N
11-14 cis Trieicosadienoin C20:2 cis,cis		UG-031N ‡
Dieicosadienoin C20:2		UG-032N ‡
Monoeicosadienoin C20:2		UG-033N ‡
Set of Unsaturated Glyceride (UFA-001 to UFA-033)	1 x 33 units	UG-N-SET ‡

Lipid Standards analyzed by both GLC and TLC are supplied with complete analytical documentation.

‡ To delay premature breakdown of thermally labile products in transit we suggest shipping with a "Cold Pack"

(Storage: -20°C, protect from light)



Food Analysis

AOCS, NHI/NIH

AOCS, Method Ce1-62 Animal & Vegetable Reference Mixes

AOCS Animal & Vegetable Reference Neat Mixtures)	Cat. No.	Unit
Mix 1: Suitable standard for corn, cottonseed, kapok, poppyseed, rice, safflower, sesame, soybean, sunflower and walnut oils	AOCS-001N ‡	100 mg
Mix 2: Suitable standard for hempseed, linseed, perrilla & rubberseed oils	AOCS-002N ‡	100 mg
Mix 3: Suitable standard for mustard seed, peanut and rapeseed oil	AOCS-003N ‡	100 mg
Mix 4: Suitable standard for neatsfoot, olive and teaseed oils	AOCS-004N ‡	100 mg
Mix 5: Suitable standard for babassu, coconut, ouri-curi & palm kernel oils	AOCS-005N ‡	100 mg
Mix 6: Suitable standard for lard, beef tallow, mutton tallow and palm oil	AOCS-006N ‡	100 mg
AOCS Rapeseed Mix, Suitable standard for modern low erucic acid oils	AOCS-007N ‡	100 mg
AOCS Animal & Vegetable Reference Mix Set (AOCS-001N to AOCS-007N)	AOCS-SET ‡	7 x 100 mg

Food Standards

Methyl Ester (% Composition by Weight)

AOCS Reference Mix	Cat. No.	C8:0 Caprylate	C10:0 Caprate	C12:0 Laurate	C14:0 Myristate	C16:0 Palmitate	C16:1 Palmitoleate	C18:0 Stearate	C18:1 Oleate	C18:2 Linoleate	C18:3 Linolenate	C20:0 Arachidate	C20:1 Eicosenoate	C22:0 Behenate	C22:1 Eurcate	C24:0 Lignocerate
RM-1 ‡	AOCS-001N					6.0		3.0	35.0	50.0	3.0	3.0				
RM-2 ‡	AOCS-002N					7.0		5.0	18.0	36.0	34.0					
RM-3 ‡	AOCS-003N				1.0	4.0		3.0	45.0	15.0	3.0	3.0		3.0	20.0	3.0
RM-4 ‡	AOCS-004N					11.0		3.0	80.0	6.0						
RM-5 ‡	AOCS-005N		7.0	5.0	48.0	15.0	7.0	3.0	12.0	3.0						
RM-6 ‡	AOCS-006N					2.0	30.0	3.0	14.0	41.0	7.0	3.0				
Rapeseed ‡	AOCS-007N					1.0	4.0	3.0	60.0	12.0	5.0	3.0	1.0	3.0	5.0	3.0

NHI/NIH Fatty Acid Methyl Ester Profiling Mixes

Designed to test reliability of chromatographic system when performing quantitative analysis of Fatty Acids.

Methyl Ester (% Composition by Weight)

NHI/NIH Reference Mix	Cat. No.	C8:0 Caprylate 100 mg	C10:0 Caprate	C12:0 Laurate	C14:0 Myristate	C16:0 Palmitate	C16:1 Palmitoleate	C18:0 Stearate	C18:1 Oleate	C20:0 Arachidate	C22:0 Behenate	C24:0 Lignocerate	
NHI-A	NHI-001N					25.0	10.0		65.0				
NHI-B	NHI-002N					4.0	40.0		56.0				
NHI-C ‡	NHI-003N		1.5	3.0	6.0	12	19.4		24.9		33.2		
NHI-D	NHI-004N					11.8	23.6	6.9	13.1	44.6			
NHI-E	NHI-005N		6.3	9.1	12.0	23.3	49.2						
NHI-F ‡	NHI-006N					2.5	4.2		7.3		13.6	25.4	47.0

NHI-SET ‡ 6 x 100 mg
(NHI-001N to NHI-006N)

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Fatty Acid Methyl Esters (FAMES)

These mixes and kits are suitable for determining peak identification & establishing chromatographic retention times.

Saturated Straight Chain Kit

FAME-001-R1-KIT 10 units
Methyl esters, purity 99%, 100 mg each

Me Caproic acid (C6:0)
Me Caprylic acid (C8:0)
Me Capric acid (C10:0)
Me Lauric acid (C12:0)
Me Myristic acid (C14:0)
Me Palmitic acid (C16:0)
Me Stearic acid (C18:0)
Me Arachidic acid (C20:0)
Me Behenic acid (C22:0)
Me Lignoceric acid (C24:0)

Saturated Straight Chain Kit

FAME-002-R1-KIT 19 units
Methyl esters, 99% purity, 100 mg each

Me Caproic acid (6:0)
Me Heptanoic acid (7:0)
Me Caprylic acid (8:0)
Me Nonanoic acid (9:0)
Me Capric acid (10:0)
Me Undecanoic acid (11:0)
Me Lauric Acid (12:0)
Me Tridecanoic acid (13:0)
Me Myristic acid (14:0)
Me Pentadecanoic acid (15:0)
Me Palmitic acid (16:0)
Me Heptadecanoic acid (17:0)
Me Stearic acid (18:0)
Me Nonadecanoic acid (19:0)
Me Arachidic acid (20:0)
Me Heneicosanoic acid (21:0)
Me Behenic acid (22:0)
Me Tricosanoic acid (23:0)
Me Lignoceric acid (24:0)

Odd Carbon Straight Chain Kit

FAME-005-R1-KIT 9 units
Methyl esters, 99+% purity, 100 mg each

Me Heptanoic acid (C7:0)
Me Nonanoic acid (C9:0)
Me Undecanoic acid (C11:0)
Me Tridecanoic acid (C13:0)
Me Pentadecanoic acid (C15:0)
Me Heptadecanoic acid (C17:0)
Me Nonadecanoic acid (C19:0)
Me Heneicosanoic acid (C21:0)
Me Tricosanoic acid (C23:0)

Unsaturated Straight Chain Kit

FAME-003-R1-KIT ‡ 14 units
Storage -20°C, Protect from light
Saturated methyl esters, purity 99%, 10 mg each

Me Myristoleic acid (14:1)
Me Palmitoleic acid (16:1)
Me Petroselinic acid (18:1)
Me Elaidic acid (18:1)
Me cis-Vaccenic acid (18:1, cis)
Me Linoleic acid (18:2, cis)
Me Linolelaidic acid (18:2, trans)
Me Linolenic acid (18:3)
Me cis-11-Eicosenoic acid (20:1)
Me Arachidonic acid (20:4)
Me Erucic acid (22:1)
Me cis-4,7,10,13,16,19-Docosahexaenoic acid (22:6)
Me Nervonic acid (24:1)
Me Oleic acid (18:1)

Methyl Ester Mix #1

FAMQ-001 ‡ 40 mg
Storage: -20°C, Protect from light
Approximately 10 mg of each in a qualitative mix

11-Eicosenoic acid methyl ester (20:1)
11,14-Eicosadienoic acid methyl ester (20:2)
Arachidonic acid methyl ester (20:4)
5,8,11,14,17-Eicosapentaenoic acid methyl ester (20:5)

Fatty Acid Methyl Ester Mix #2

FAMQ-002 ‡ 50 mg
Storage: -20°C, Protect from light
Approximately 10 mg of each in a qualitative mix

11-Eicosenoic acid methyl ester (20:1)
11,14-Eicosadienoic acid methyl ester (20:2)
11,14,17-Eicosatrienoic acid methyl ester (20:3)
Arachidonic acid methyl ester (20:4)
5,8,11,14,17-Eicosapentaenoic acid methyl ester (20:5)

Volatile Acid Standard Solution

FAMQ-004 1 x 100 mL
Storage: Refrigerate
10mM of each component in deionized H₂O.

Formic acid	Isovaleric acid
Acetic acid	n-Valeric acid
Propionic acid	Isocaproic acid (4-Methyl valeric acid)
Isobutyric acid	Hexanoic acid (n-Caproic acid)
Butyric acid	Heptanoic acid

‡ To delay premature breakdown of thermally labile products in transit we suggest shipping with a "Cold Pack"

Standards of Interest

For FAME standards refer to BioFuels in the Petrochemical section.

FAME Quantitative Standard Mix

FAMQ-005 ‡ 1 x 1 mL
Storage: -20°C, Protect from light
At stated conc. in CH₂Cl₂ (total of 10 mg/mL)

	37 comps. mg/mL
Me Butyric acid (C4:0)	0.4
Me Caproic acid (C6:0)	0.4
Me Caprylic acid (C8:0)	0.4
Me Capric acid (C10:0)	0.4
Me Undecanoic acid (C11:0)	0.2
Me Lauric acid (C12:0)	0.4
Me Tridecanoic acid (C13:0)	0.2
Me Myristic acid (C14:0)	0.4
Me Myristoleic acid (C14:1)	0.2
Me Pentadecanoic acid (C15:0)	0.2
Me cis-10-Pentadecenoic acid (C15:1)	0.2
Me Palmitic acid (C16:0)	0.6
Me Palmitoleic acid (C16:1)	0.2
Me Heptadecanoic acid (C17:0)	0.2
Me cis-10-Heptadecenoic acid (C17:1)	0.2
Me Stearic acid (C18:0)	0.4
Me Elaidic acid (C18:1n9t)	0.2
Me Oleic acid (C18:1n9c)	0.4
Me Linolelaidic acid (C18:2n6t)	0.2
Me Linoleic acid (C18:2n6c)	0.2
Me Arachidic acid (C20:0)	0.4
Me g-Linolenic acid (C18:3n6)	0.2
Me cis-11-Eicosenoic acid (C20:1)	0.2
Me Linolenic acid (C18:3n3)	0.2
Me Heneicosanoic acid (C21:0)	0.2
Me cis-11,14-Eicosadienoic acid (C20:2)	0.2
Me Behenic acid (C22:0)	0.4
Me cis-8,11,14-Eicosatrienoic acid (C20:3n6)	0.2
Me Erucic acid (C22:1n9)	0.2
Me cis-11,14,17-Eicosatrienoic acid (C20:3n3)	0.2
Me Arachidonic acid (C20:4n6)	0.2
Me Tricosanoic acid (C23:0)	0.2
Me cis-13,16-Docosadienoic acid (C22:2)	0.2
Me Lignoceric acid (C24:0)	0.4
Me cis-5,8,11,14,17-Eicosapentaenoic acid (C20:5n3)	0.2
Me Nervonic acid (C24:1)	0.2
Me cis-4,7,10,13,16,19-Docosahexaenoic acid (C22:6n3)	0.2



Food Analysis

- 99+% Purity (except as noted)
- Convenient packaging size eliminates costly disposal
- Lot Analysis supplied with each Standard

Melamine Kit

Analysis for Melamine in pet food, formula milk, and other foodstuffs can now be more accurate and reliable with the Melamine Reference Standards Set which contains seven ampules: Melamine, Ammeline, Ammelide, Cyanuric acid, the method recommended Internal Standard, a column clean-up solution, and a Silylating Reagent.

FDA-PROP-001-SET



5 x 1 mL, 2 x 5 mL

		Cat. No.	1 mL
Melamine	1000 µg/mL in Diethylamine:Water (1:4)	FDA-PROP-001A	
Ammeline	1000 µg/mL in Diethylamine:Water (1:4)	FDA-PROP-001B	
Ammelide	1000 µg/mL in Diethylamine:Water (1:4)	FDA-PROP-001C	
Cyanuric acid	1000 µg/mL in Diethylamine:Water (1:4)	FDA-PROP-001D	

Internal Standard

FDA-PROP-001-IS

1 x 1 mL

1000 µg/mL in Pyridine

2,6-Diamino-4-chloropyrimidine

Silylating Reagent

FDA-PROP-001-DER

1 x 5 mL

vol/vol%

BSTFA [bis(trimethylsilyl)trifluoroacetamide] 99
TMCS 1

Column Clean-up Check

FDA-PROP-001-CHK

1 x 5 mL

vol/vol%

Sylon BFT 50
Pyridine 50

EFSA for Isopropylthioxanthone (ITX)

Responding to the hazard found in Italy, France, Spain, and Portugal, we have formulated Isopropylthioxanth-9-one (a photographical chemical) found in baby milk in Italy. The 2-isomer as well as the technical mixture also contains the 4-isomer.



2-Isopropylthioxanthone (ITX)

EFSA-ITX-01

1 x 1 mL

1.0 mg/mL in Isooctane

2-Isopropylthioxanth-9-one

Isopropylthioxanthone (ITX) mixed isomers

EFSA-ITX-02

1 x 1 mL

1.0 mg/mL in Isooctane

2- & 4-Isopropylthioxanth-9-one

Vitamin Standards

Water Soluble		CAS No.	Unit	Cat. No.
Thiamine • HCL	B1	67-03-8	1 gram	VIT-001N
Riboflavin	B2	83-88-5	1 gram	VIT-002N
Pyridoxine • HCL	B6	58-56-0	1 gram	VIT-003N
L-Ascorbic acid	C	50-81-7	1 gram	VIT-004N
Nicotinic acid	Niacin	59-67-6	1 gram	VIT-005N
Nicotinamide		98-92-0	1 gram	VIT-006N
Folic Acid	M	59-30-3	1 gram	VIT-007N
Pantothenic acid		79-83-4	100 mg	VIT-008N
d-Biotin	H	58-85-5	100 mg	VIT-009N-R1
Cyanocobalamin	B12	68-19-9	25 mg	VIT-010N-R1
Water Soluble Vitamin Set, Includes: VIT-001N to VIT-010N			10 units	VIT-WSK-R1-SET
Fat Soluble				
dl-alpha-Tocopherol	E	10191-41-0	100 mg	VIT-012N
Cholecalciferol	D3	67-97-0	100 mg	VIT-013N
Retinol Palmitate	A, Palmitate	79-81-2	100 mg	VIT-014N
dl-alpha-Tocopherol acetate		7695-91-2	100 mg	VIT-015N
Phylloquinone	K1	84-80-0	100 mg	VIT-016N
Menaquinone	K2	11032-49-8	100 mg	VIT-017N
Menadione	K3	58-27-5	100 mg	VIT-018N
β-Carotene (Substantially free of alpha Carotene)		7235-40-7	10 mg	VIT-019N
d-alpha-Tocopherol succinate	E	4345-03-3	100 mg	VIT-020N
Ergocalciferol	D2	50-14-6	100 mg	VIT-022N
Fat Soluble Vitamin Set, Includes: VIT-012N to VIT-022N			10 units	VIT-FSK-R2-SET

Technical Note

AccuStandard Vitamin Standards are thoroughly tested, packaged and stored under an ISO 9001 and 17025 Quality System to provide the highest quality Vitamin Standards available. Remember to always store Standards properly, away from light sources. Each Standard is provided with an actual lot analysis and additional transfer vial and label.

Preservative and Antimicrobial Standards

Compound	Purity	CAS No.	Unit	Cat. No.
Benzoic acid	99 %	65-85-0	1 gram	AP-001N
Sodium benzoate	99 %	532-32-1	1 gram	AP-002N
Potassium nitrite	97 %	7758-09-0	1 gram	AP-003N
Sodium nitrite	99 %	7632-00-0	1 gram	AP-004N
Sodium nitrate	99 %	7631-99-4	1 gram	AP-005N
Potassium nitrate	99 %	7757-79-1	1 gram	AP-006N
Methyl paraben	99 %	99-76-3	1 gram	AP-007N
Ethyl paraben	99 %	120-47-8	1 gram	AP-008N
Butyl paraben	99 %	94-13-3	1 gram	AP-009N
Propionic acid	99 %	79-09-4	1 gram	AP-010N
Sodium propionate	97 %	137-40-6	1 gram	AP-011N
Calcium propionate	97 %	4075-81-4	1 gram	AP-012N
Sorbic acid	99 %	110-44-1	1 gram	AP-013N
Potassium sorbate	99 %	590-00-1	1 gram	AP-014N
Preservative & Antimicrobial Set			14 x 1 gram	AP-SET

Set includes: AP-001N through AP-014N