

Certificate

FAME STANDARD MIXTURE

(A mixture of 25 Fatty Acid Methyl Esters)

USP Catalog No.: 1269119

USP Lot No.: R060B0

Item	Name/Chemical Name	CAS	Molecular Weight	Molecular Formula	Content (% w/w)	Purity
1	Methyl Octanoate (C8:0)	111-11-5	158.24	C ₉ H ₁₈ O ₂	4.1	100%
2	Methyl Decanoate (C10:0)	110-42-9	186.29	C ₁₁ H ₂₂ O ₂	4.1	100%
3	Methyl Laurate (C12:0)	111-82-0	214.34	C ₁₃ H ₂₆ O ₂	3.9	100%
4	Methyl Tridecanoate (C13:0)	1731-88-0	228.37	C ₁₄ H ₂₈ O ₂	4.0	100%
5	Methyl Myristate (C14:0)	124-10-7	242.40	C ₁₅ H ₃₀ O ₂	4.1	100%
6	Methyl Palmitate (C16:0)	112-39-0	270.45	C ₁₇ H ₃₄ O ₂	4.0	100%
7	Methyl Palmitoleate (C16:1)	1120-25-8	268.43	C ₁₇ H ₃₂ O ₂	4.0	100%
8	Methyl Heptadecanoate (C17:0)	1731-92-6	284.48	C ₁₈ H ₃₆ O ₂	3.9	100%
9	Methyl Stearate (C18:0)	112-61-8	298.50	C ₁₉ H ₃₈ O ₂	3.9	100%
10	Methyl Oleate (C18:1)	112-62-9	296.49	C ₁₉ H ₃₆ O ₂	4.1	100%
11	Methyl Linoleate (C18:2)	112-63-0	294.47	C ₁₉ H ₃₄ O ₂	4.6	100%
12	Methyl Linolenate (C18:3)	301-00-8	292.46	C ₁₉ H ₃₂ O ₂	4.0	100%
13	Methyl Arachidate (C20:0)	1120-28-1	326.56	C ₂₁ H ₄₂ O ₂	4.1	100%
14	Methyl 11-Eicosenoate (C20:1)	2390-09-2	324.54	C ₂₁ H ₄₀ O ₂	4.1	100%
15	Methyl Heneicosanoate (C21:0)	6064-90-0	340.58	C ₂₂ H ₄₄ O ₂	4.0	100%
16	Methyl Arachidonate (C20:4)	2566-89-4	318.49	C ₂₁ H ₃₄ O ₂	4.1	100%
17	Methyl 11-14-17-Eicosatrienoate (C20:3)	55682-88-7	320.51	C ₂₁ H ₃₆ O ₂	4.4	100%
18	Methyl Eicosapentaenoate (C20:5)	2734-47-6	316.48	C ₂₁ H ₃₂ O ₂	4.3	100%
19	Methyl Behenate (C22:0)	929-77-1	354.61	C ₂₃ H ₄₆ O ₂	4.2	100%
20	Methyl Erucate (C22:1)	1120-34-9	352.59	C ₂₃ H ₄₄ O ₂	4.0	100%
21	Methyl Tricosanoate (C23:0)	2433-97-8	368.64	C ₂₄ H ₄₈ O ₂	4.2	100%
22	Methyl Docosapentaenoate (C22:5)	108698-02-8	344.53	C ₂₃ H ₃₆ O ₂	4.1	100%
23	Methyl Lignocerate (C24:0)	2442-49-1	382.66	C ₂₅ H ₅₀ O ₂	4.2	100%
24	Methyl Docosahexaenoate (C22:6)	2566-90-7	342.51	C ₂₃ H ₃₄ O ₂	4.0	100%
25	Methyl Nervonate (C24:1)	2733-88-2	380.65	C ₂₅ H ₄₈ O ₂	4.2	100%

LABEL TEXT

For use with specified USP compendial tests. Not for use as a drug.
See SDS prior to use at www.usp.org/sds.

USP REFERENCE STANDARD

FAME STANDARD MIXTURE 100 mg

(A mixture of 25 Fatty Acid Methyl Esters)



Warning! Causes serious eye irritation.

A mixture of twenty five saturated, monounsaturated and polyunsaturated fatty acid methyl esters. See the accompanying Certificate for a detailed list of all components, content and purity. Store in a freezer. Dispose of unused portion after opening.

Wash thoroughly after handling. Wear eye/face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

KEEP AMPULE IN SECONDARY CONTAINER!

USP, 12601 Twinbrook Pkwy, Rockville, MD, +1-301-881-0666
Cat. No. 1269119 Material mfd. in United States

LOT: R060B0



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Not for use as a drug. See SDS prior to use
at www.usp.org/sds.

USP REFERENCE STANDARD

FAME STANDARD MIXTURE 100 mg

Warning!



See outer package label for full hazard information.

A mixture of twenty five saturated, monounsaturated and polyunsaturated fatty acid methyl esters. See the accompanying Certificate for a detailed list of all components, content and purity. Store in a freezer. Dispose of unused portion after opening.

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Cat. No. 1269119 Lot: R060B0
Material mfd. in United States

Jeri L. Joth

Quality Assurance

Calculation Value

If a value is not provided on the label or accompanying documentation and the Reference Standard has a quantitative USP compendial application, a value of 100.0% is used. The purity value is not applicable for qualitative uses. Please refer to the specific Reference Standard label for further information.

Expiration

Current lots are identified in the current USP Catalog. In some cases, the previous lot may still be considered valid for use. If so, it is identified in the column marked "Previous Lot/Valid Use Date."

It is the responsibility of each user to determine that this lot is current or valid when used. For the most up-to-date information, please refer to the USP Store at www.usp.org.

Instructions for Use

Follow the instructions on the label of the USP Reference Standard and in the appropriate USP documentary standard(s).

Non-Monograph Use

The suitability of this Reference Standard for use in non-compendial applications is solely the responsibility of the user.

LEGAL NOTICE

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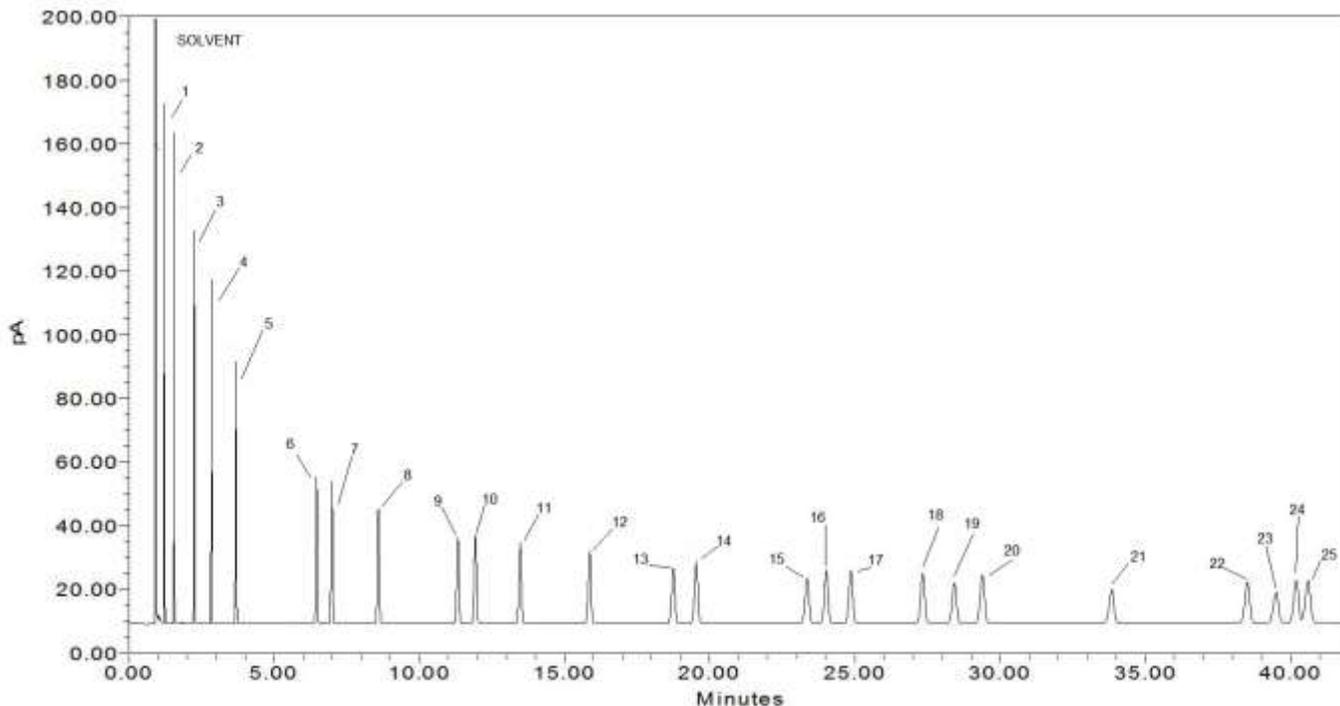
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Typical Chromatogram

USP FAME STANDARD MIXTURE RS

Catalog Number: 1269119
Lot: R060B0
Monographs: 1. APPENDIX VII: FATS AND RELATED SUBSTANCES 2. FULLY HYDROGENATED OILS AND FATS 3. SODIUM OLEATE
Publication: FCC 10 th Edition
Test: Fatty Acid Composition (Saturated, <i>cis</i> -Monounsaturated, and <i>cis</i> -Polyunsaturated) in Oils Containing Long Chain Polyunsaturated Fatty Acids
Sample: As per monograph, 100 mg of USP FAME Standard Mixture RS in 5 mL of heptane.



See Table for Peak Identity, Content and Purity

This chromatogram is supplied for information only, unless otherwise specified in an applicable monograph or general chapter.