

Fatty Acid Species in Frozen Human Serum

Art. ID	NIST-3951
Unit	3 vials x 1 mL
Deliverydetails	Dry ice shipment /not restricted

Description

The certified values delivered by this Standard Reference Material (SRM) are intended for validating methods for determining free and total fatty acids in human serum and similar materials. A unit of SRM 3951 consists of three vials of frozen serum with each vial containing approximately 1.0 mL of serum. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Mass Fraction Value	Tetradecanoic acid (Myristic acid) (C14:0)	[544-63-8]	1.91 ± 0.28	µg/g		
Certified Mass Fraction Value	Hexadecanoic acid (Palmitic acid) (C16:0)	[57-10-3]	48.1 ± 2.9	µg/g		
Certified Mass Fraction Value	(Z)-9-Hexadecenoic acid (Palmitoleic acid) (C16:1 n-7)	[373-49-9]	3.56 ± 0.60	µg/g		
Certified Mass Fraction Value	Octadecanoic acid (Stearic acid) (C18:0)	[57-11-4]	14.4 ± 3.6	µg/g		
Certified Mass Fraction Value	(Z)-9-Octadecenoic acid (Oleic acid) (C18:1 n-7)	[112-80-1]	36.1 ± 0.8	µg/g		
Certified Mass Fraction Value	(Z,Z)-9,12-Octadecadienoic acid (Linoleic acid) (C18:2 n-6)	[60-33-3]	32.5 ± 3.6	µg/g		
Certified Value, Concentration	Tetradecanoic acid (Myristic acid) (C14:0)	[544-63-8]	8.6 ± 1.2	µmol/L		
Certified Value, Concentration	Hexadecanoic acid (Palmitic acid) (C16:0)	[57-10-3]	192 ± 17	µmol/L		
Certified Value, Concentration	(Z)-9-Hexadecenoic acid (Palmitoleic acid) (C16:1 n-7)	[373-49-9]	14.3 ± 2.4	µmol/L		
Certified Value, Concentration	Octadecanoic acid (Stearic acid) (C18:0)	[57-11-4]	52 ± 13	µmol/L		
Certified Value, Concentration	(Z)-9-Octadecenoic acid (Oleic acid) (C18:1 n-7)	[112-80-1]	131 ± 3	µmol/L		

Certified Value, Concentration	(Z,Z)-9,12-Octadecadienoic acid (Linoleic acid) (C18:2 n-6)	[60-33-3]	117 ± 14	µmol/L
Certified Serum Density at 22.6 °C ± 0.2 °C	Density		1.0214 ± 0.0004	g/mL