

## 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-9)	[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-9)	[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