

105.2 - Serum and Plasma Materials (frozen, liquid, and lyophilized forms)

These SRMs serve a variety of clinical measurement needs.

SRM 909c is a frozen human serum for use in determining specified constituents.
 SRM 927a is a bovine serum albumin in a sterile 7% solution for use in the calibration and standardization of procedures to analyze total serum protein.
 SRM 956d is a frozen human serum for use in the calibration and standardization of procedures for the determination of specific electrolytes in either diluted or undiluted human serum or plasma.
 SRM 965b is a frozen human serum for evaluating the accuracy of procedures used to determine glucose in human serum and to validate secondary reference materials.
 SRM 967a is a frozen human serum for evaluating the accuracy of procedures for the determination of creatinine in human serum.
 SRM 968e is a lyophilized human serum for validating methods used to determine fat-soluble vitamins, carotenoids, and cholesterol in human serum and plasma.
 SRM 971 is a hormone in frozen human serum for evaluating the accuracy of procedures for the determination of the steroid hormones cortisol and progesterone in human serum.
 SRM 972a is a frozen human serum for evaluating vitamin D metabolites.
 SRM 1950 is a frozen human serum for evaluating the accuracy of clinical procedures for the determination of total cholesterol, HDL-cholesterol, LDL-cholesterol and total glycerides.
 SRM 1951c is a freeze-dried human serum for evaluating PCB congeners, chlorinated pesticides and total cholesterol in human serum and similar matrices.
 SRMs 1952a and 1955 are freeze-dried human serums for evaluating PCB congeners, chlorinated pesticides, and PBDE congeners with non-certified values for PCBs and dioxins/furans.
 SRM 1957 is a human cardiac troponin complex. SRM 2921 is primarily intended for use in calibrating clinical procedures and devices for the determination of cardiac troponin I (cTnI) in human serum. It can also be used for value-assignment of calibrators and control materials.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM Description	909c	927a	956d	965b	967a	968e	971	972a	1950	1951c	1952a	1955	1957	1958
	Frozen Human Serum	Bovine Serum Albumin (7% solution) (Total Protein Standard)	Electrolytes in Frozen Human Serum	Glucose in Frozen Human Serum	Creatinine in Frozen Human Serum	Fat-Soluble Vitamins, Carotenoids, and Cholesterol in Human Serum	Hormones in Frozen Human Serum	Vitamin D Metabolites in Frozen Human Serum	Metabolites in Frozen Human Plasma	Lipids in Frozen Human Serum	Cholesterol in Freeze-Dried Human Serum	Homocysteine and Folate in Frozen Human Serum	Organic Contaminants in Non-Fortified Human Serum (Freeze-Dried)	Organic Contaminants in Fortified Human Serum (Freeze-Dried)
Unit Size	(3 x 2 mL)	(10 x 2.2mL)	(6 x 2.0 mL)	(set 8) (2 each conc)	(set 4) (2 each conc)	(set 3) (1 each conc.)	(2 x 5 mL)	(4 x 1 mL)	(5 x 1 mL)	(4 vials (2 each conc))	(set 6) (2 each conc)	(set 3) (1 each conc)	(5 x 10.7 mL reconstituted)	(5 x 10 mL)
α-Carotene-Total						X			X					
α-Tocopherol						3 levels			X					
γ-Tocopherol						3 levels			X					
β-cryptoxanthin-total						3 levels								
Calcium Ionized			X											
5-Methyltetrahydrofolic Acid									X			3 levels		
Albumin		X												
Amino Acids									X					
Ascorbic Acid														
Bilirubin									X					
Cardiac troponin C (cTnC)														
Cardiac troponin I (cTnI)														
Cardiac troponin T (cTnT)														
Chlorine Cl			X											
Cholesterol	X					3 levels			X	2 levels	3 levels			
Cis-B-Carotene									X					
Coenzyme Q10						(3 levels)								
Cortisol							2 levels		X					
Creatinine	X				2 levels				X					
Dioxins/Furans													X	X
Drugs of Abuse														
Elements (Selected)	X								X					
Fatty Acids									X					
Folic Acid									X			3 levels		
Glucose				4 levels					X					
Glycerides-Total	X								X	2 levels				
HDL-Cholesterol										2 levels				
Homocysteine									X			3 levels		
LDL-Cholesterol										2 levels				
Lutein-Total						3 levels			X					
Lycopene-Total						3 levels			X					
Perfluorinated compounds (PFCs)									X				X	X
Pesticides													X	X
Polybrominated diphenyl ethers (PBDEs)													X	X
Polychlorinated biphenyl (PCB) Congeners													X	X
Progesterone							2 levels		X					
Prox. Protein	X	X							X					
Pyridoxal 5'-phosphate									X					
Retinol-Total						3 levels			X					
Selenium Species									X					
Testosterone							2 levels		X					
total 3,3',5-triiodothyronine (T3)							2 levels							
Total B-Cryptoxanthin									X					
total thyroxine (T4)							2 levels							
trans-β-Carotene						3 levels			X					
trans-Lycopene						3 levels			X					
Urea	X								X					
Uric Acid	X								X					
Vitamin D								4 levels						
Vitamin, 25-hydroxyvitamin D2									X					
Vitamin, 25-hydroxyvitamin D3						3 levels			X					
Vitamin, 3-epi-25-hydroxyvitamin D3														
Zeaxanthin-total						3 levels			X					

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only

