

**Toxic Metals and Metabolites in Frozen Human Blood, Standard Reference Material (dry ice shipment)**

Art. ID                      NIST-955d  
Unit                         6 vials x 1.6 mL  
Deliverydetails            Dry ice shipment /not restricted

**Description**

This Standard Reference Material (SRM) is intended for use in the validation of analytical methods for measuring toxic metals in human blood. A unit of NIST-955d consists of six vials of frozen human blood with two vials at each of three concentration levels. Each vial contains nominally 1.6 mL of whole blood. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Level 1	Lead (Pb)	[7439-92-1]	1,48 ± 0,026	µg/L		
Level 2	Lead (Pb)	[7439-92-1]	4,947 ± 0,085	µg/L		
Level 3	Lead (Pb)	[7439-92-1]	42,13 ± 0,63	µg/L		
Level 1	Arsenic (As)	[7440-38-2]	5,31 ± 0,76	µg/L		
Level 2	Arsenic (As)	[7440-38-2]	277,5 ± 4,8	µg/L		
Level 3	Arsenic (As)	[7440-38-2]	774 ± 13	µg/L		
Level 1	Cadmium (Cd)	[7440-43-9]	0,326 ± 0,01	µg/L		
Level 2	Cadmium (Cd)	[7440-43-9]	5,343 ± 0,082	µg/L		
Level 3	Cadmium (Cd)	[7440-43-9]	10,5 ± 0,11	µg/L		
Level 1	Chromium (Cr)	[7440-47-3]	0,886 ± 0,069	µg/L		
Level 2	Chromium (Cr)	[7440-47-3]	2,012 ± 0,037	µg/L		
Level 3	Chromium (Cr)	[7440-47-3]	42,5 ± 1,3	µg/L		
Level 1	Cobalt (Co)	[7440-48-4]	0,384 ± 0,051	µg/L		
Level 2	Cobalt (Co)	[7440-48-4]	1,61 ± 0,057	µg/L		
Level 3	Cobalt (Co)	[7440-48-4]	31,91 ± 0,5	µg/L		
Level 1	Manganese (Mn)	[7439-96-5]	48,8 ± 1,3	µg/L		
Level 2	Manganese (Mn)	[7439-96-5]	51,2 ± 1,3	µg/L		
Level 3	Manganese (Mn)	[7439-96-5]	75,9 ± 2	µg/L		
Level 1	Mercury (Hg) total		1,373 ± 0,081	µg/L		
Level 2	Mercury (Hg) total		6,83 ± 0,33	µg/L		
Level 3	Mercury (Hg) total		55,3 ± 1,6	µg/L		
Level 1	Selenium (Se)	[7782-49-2]	206,6 ± 9,5	µg/L		
Level 2	Selenium (Se)	[7782-49-2]	263 ± 16	µg/L		
Level 3	Selenium (Se)	[7782-49-2]	749 ± 62	µg/L		
Level 1	Uranium (U)	[7440-61-1]	0,0111 ± 0,0013	µg/L		
Level 2	Uranium (U)	[7440-61-1]	0,1016 ± 0,0095	µg/L		
Level 3	Uranium (U)	[7440-61-1]	1,024 ± 0,065	µg/L		

Level 1	Ethylmercury (as Hg)	0,342 ± 0,034	µg/L
Level 2	Ethylmercury (as Hg)	0,649 ± 0,028	µg/L
Level 1	Inorganic Mercury (as Hg)	0,405 ± 0,024	µg/L
Level 2	Inorganic Mercury (as Hg)	2,135 ± 0,043	µg/L
Level 1	Methylmercury (as Hg)	0,626 ± 0,02	µg/L
Level 2	Methylmercury (as Hg)	3,844 ± 0,077	µg/L