

## Organic contaminants in non-fortified human serum

Art. ID	NIST-1957
Unit	5 vials x 10,7 mL
Deliverydetails	No Dangerous Good /not restricted

### Description

This Standard Reference Material (SRM®) is intended for use in evaluating analytical methods for the determination of selected polychlorinated biphenyl (PCB) congeners, chlorinated pesticides, and polybrominated diphenyl ether (PBDE) congeners in human serum and similar matrices. Reference values are provided for selected perfluorinated compounds (PFCs), and information values are provided for selected hydroxylated compounds, polychlorinated dibenzo-p-dioxins (PCDDs), and polychlorinated dibenzofurans (PCDFs). All of the constituents for which certified and reference values are provided in NIST-1957 are naturally present in the freeze-dried human serum. A unit of NIST-1957 consists of five bottles of 10.7 mL of freeze-dried non-fortified human serum. Before use, the serum in each bottle must be reconstituted with 10.7 mL of distilled or HPLC-grade water. Certified values /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	2,3',4,4',5-Pentachloro biphenyl (PCB 118)	[31508-00-6]	18,5 ± 2,7	ng/kg reco nstituted serum		
	2,2',3,4,4',5'-Hexachlo robiphenyl (PCB 138)	[35065-28-2]	36,9 ± 5,4	ng/kg reco nstituted serum		
	2,2',4,4',5,5'-Hexachlo robiphenyl (PCB 153)	[35065-27-1]	57,2 ± 3,3	ng/kg reco nstituted serum		
	2,2',3,3',4,4',5-Heptac hlorobiphenyl (PCB 170)	[35065-30-6]	16,7 ± 2,6	ng/kg reco nstituted serum		
	2,2',3,4,4',5,5'-Heptac hlorobiphenyl (PCB 180)	[35065-29-3]	54,4 ± 1,3	ng/kg reco nstituted serum		
	2,3,3',4',5,5',6-Heptac hlorobiphenyl (PCB 193)	[69782-91-8]		ng/kg reco nstituted serum		
	2,2',3,4',5,5',6-Heptac hlorobiphenyl (PCB 187)	[52663-68-0]	15,7 ± 0,9	ng/kg reco nstituted serum		
	2,2',3,3',4,4',5,5'-Oct achlorobiphenyl (PCB 19 4)	[35694-08-7]	12,0 ± 0,5	ng/kg reco nstituted serum		

2,2',4,4'-Tetrabromodiphenyl ether (PBDE 47)	[5436-43-1]	272 ± 14	ng/kg reco nstituted serum
2,2',4,4',5-Pentabromodiphenyl ether (PBDE 99)	[60348-60-9]	77,8 ± 1,7	ng/kg reco nstituted serum
2,2',4,4',6-Pentabromodiphenyl ether (PBDE 100)	[189084-64-8]	50,5 ± 2,5	ng/kg reco nstituted serum
2,2',4,4',5,5'-Hexabromodiphenyl ether (PBDE 153)	[68631-49-2]	62,1 ± 3,0	ng/kg reco nstituted serum
2,2',4,4',5,5'-Hexabromobiphenyl (PBB 153)	[59080-40-9]	15,8 ± 1,0	ng/kg reco nstituted serum
Hexachlorobenzene	[118-74-1]	30,3 ± 4,1	ng/kg reco nstituted serum
trans-Nonachlor	[39765-80-5]	59,9 ± 0,5	ng/kg reco nstituted serum
4,4'-DDE	[72-55-9]	940 ± 78	ng/kg reco nstituted serum