

Out of Stock - Product is not available at this time - Lake Superior fish tissue - Organic contaminants - Dry ice shipment

Art. ID NIST-1946
Unit 5 x 7-9 g
Deliverydetails Dry ice shipment /not restricted

Description

This Standard Reference Material (SRM®) is a frozen fish tissue homogenate, which was prepared from lake trout (*Salvelinus namaycush namaycush*) collected from Lake Superior (U.S./Canada), and is intended primarily for use in evaluating analytical methods for the determination of polychlorinated biphenyl (PCB) congeners, chlorinated pesticides, fatty acids (including omega-3 fatty acids), extractable fat, methylmercury, total mercury, and selected trace elements in fish tissue and similar matrices. Information is also provided for proximates and caloric content. All of the constituents for which certified, reference, and information values are provided, are naturally present in the fish tissue homogenate. A unit of NIST-1946 consists of five bottles, each containing approximately 7 g to 9 g (wet basis) of frozen tissue homogenate. Reference concentrations for PCBs, pesticides, fatty acids, proximates and caloric content. Certified values /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
wet-mass basis	2,2',3,5'-Tetrachlorobiphenyl (PCB 44)	[41464-39-5]	4, 66 ± 0, 86	µg/kg		
wet-mass basis	2,2',4,5'-Tetrachlorobiphenyl (PCB 49)	[41464-40-8]	3, 80 ± 0, 39	µg/kg		
wet-mass basis	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	[35693-99-3]	8, 1 ± 1, 0	µg/kg		
wet-mass basis	2,3',4,4'-Tetrachlorobiphenyl (PCB 66)	[32598-10-0]	10, 8 ± 1, 9	µg/kg		
wet-mass basis	2,3',4',5'-Tetrachlorobiphenyl (PCB 70)	[32598-11-1]	14, 9 ± 0, 6	µg/kg		
wet-mass basis	2,4,4',5-Tetrachlorobiphenyl (PCB 74)	[32690-93-0]	4, 83 ± 0, 51	µg/kg		
wet-mass basis	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	[32598-13-3]	0, 327 ± 0, 025	µg/kg		
wet-mass basis	2,2',3,4,5'-Pentachlorobiphenyl (PCB 87)	[38380-02-8]	9, 4 ± 1, 4	µg/kg		
wet-mass basis	2,2',3,5',6-Pentachlorobiphenyl (PCB 95)	[38379-99-6]	11, 4 ± 1, 3	µg/kg		
wet-mass basis	2,2',4,4',5-Pentachlorobiphenyl (PCB 99)	[38380-01-7]	25, 6 ± 2, 3	µg/kg		
wet-mass basis	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	[37680-73-2]	34, 6 ± 2, 6	µg/kg		
wet-mass basis	2,3,3',4,4'-Pentachlorobiphenyl (PCB 102)	[32598-14-4]	19, 9 ± 0, 9	µg/kg		

	biphenyl (PCB 105)			
wet-mass basis	2,3,3',4',6-Pentachloro biphenyl (PCB 110)	[38380-03-9]	22, 8 ± 2, 0	µg/kg
wet-mass basis	2,3',4,4',5-Pentachloro biphenyl (PCB 118)	[31508-00-6]	52, 1 ± 1, 0	µg/kg
wet-mass basis	3,3',4,4',5-Pentachloro biphenyl (PCB 126)	[57465-28-8]	0, 380 ± 0, 017	µg/kg
wet-mass basis	2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128)	[38380-07-3]	22, 8 ± 1, 9	µg/kg
wet-mass basis	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	[35065-28-2]	115 ± 13	µg/kg
wet-mass basis	2,2',3,4',5,5'-Hexachlorobiphenyl (PCB 146)	[51908-16-8]	30, 1 ± 3, 5	µg/kg
wet-mass basis	2,2',3,4',5,6-Hexachlorobiphenyl (PCB 149)	[38380-04-0]	26, 3 ± 1, 3	µg/kg
wet-mass basis	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	[35065-27-1]	170 ± 9	µg/kg
wet-mass basis	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	[38380-08-4]	9, 52 ± 0, 51	µg/kg
wet-mass basis	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	[32774-16-6]	0, 106 ± 0, 014	µg/kg
wet-mass basis	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	[35065-30-6]	25, 2 ± 2, 2	µg/kg
wet-mass basis	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	74, 4 ± 4, 0	µg/kg
wet-mass basis	2,2',3,4,4',5,6-Heptachlorobiphenyl (PCB 183)	[52663-69-1]	21, 9 ± 2, 5	µg/kg
wet-mass basis	2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)	[52663-68-0]	55, 2 ± 2, 1	µg/kg
wet-mass basis	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB 194)	[35694-08-7]	13, 0 ± 1, 3	µg/kg
wet-mass basis	2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195)	[52663-78-2]	5, 30 ± 0, 45	µg/kg
wet-mass basis	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206)	[40186-72-9]	5, 40 ± 0, 43	µg/kg

wet-mass basis	Decachlorobiphenyl (PCB 209)	[2051-24-3]	1, 30 ± 0, 21	µg/kg
wet-mass basis	Hexachlorobenzene	[118-74-1]	7, 25 ± 0, 83	µg/kg
wet-mass basis	alpha-HCH	[319-84-6]	5, 72 ± 0, 65	µg/kg
wet-mass basis	gamma-HCH (Lindan)	[58-89-9]	1, 14 ± 0, 18	µg/kg
wet-mass basis	Heptachlor epoxide	[1024-57-3]	5, 50 ± 0, 23	µg/kg
wet-mass basis	Oxychlordane	[27304-13-8]	18, 9 ± 1, 5	µg/kg
wet-mass basis	cis-Chlordane (alpha)	[5103-71-9]	32, 5 ± 1, 8	µg/kg
wet-mass basis	trans-Chlordane (gamma)	[5103-74-2]	8, 36 ± 0, 91	µg/kg
wet-mass basis	cis-Nonachlor	[5103-73-1]	59, 1 ± 3, 6	µg/kg
wet-mass basis	trans-Nonachlor	[39765-80-5]	99, 6 ± 7, 6	µg/kg
wet-mass basis	Dieldrin	[60-57-1]	32, 5 ± 3, 5	µg/kg
wet-mass basis	Mirex	[2385-85-5]	6, 47 ± 0, 77	µg/kg
wet-mass basis	4,4'-DDE	[72-55-9]	373 ± 48	µg/kg
wet-mass basis	2,4'-DDD	[53-19-0]	2, 20 ± 0, 25	µg/kg
wet-mass basis	4,4'-DDD	[72-54-8]	17, 7 ± 2, 8	µg/kg
wet-mass basis	4,4'-DDT	[50-29-3]	37, 2 ± 3, 5	µg/kg
wet-mass basis	Fat (Extractable)		10, 17 ± 0, 48	%
wet-mass basis	Fat (Sum of Fatty Acids)		8, 76 ± 0, 17	%
Mass fraction as the triglyceride (wet- mass basis)	Hexadecanoic acid (Palmitic acid) (C16:0)	[57-10-3]	1, 22 ± 0, 04	%
Mass fraction as the triglyceride (wet- mass basis)	(Z)-9-Hexadecenoic acid (Palmitoleic acid) (C16:1 n-7)	[373-49-9]	0, 816 ± 0, 026	%
Mass fraction as the triglyceride (wet- mass basis)	Octadecanoic acid (Stearic acid) (C18:0)	[57-11-4]	0, 263 ± 0, 011	%
Mass fraction as the triglyceride (wet- mass basis)	(Z,Z)-9,12-Octadecadienoic acid (Linoleic acid) (C18:2 n-6)	[60-33-3]	0, 348 ± 0, 023	%
Mass fraction as the triglyceride (wet- mass basis)	(Z,Z,Z)-9,12,15-Octadecatrienoic acid (alpha-Linolenic acid) (C18:3 n-3)	[463-40-1]	0, 221 ± 0, 025	%
Mass fraction as the triglyceride (wet- mass basis)	Eicosanoic acid (Arachidic acid) (C20:0)	[506-30-9]	0, 0100 ± 0, 0012	%

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Mass fraction as the triglyceride (wet- mass basis)	(Z)-11-Eicosenoic acid (Gondoic acid) (C20:1 n-9)	[5561-99-9]	0, 132 ± 0, 012	%
Mass fraction as the triglyceride (wet- mass basis)	(Z,Z)-11,14-Eicosadienoic acid (C20:2)	[2091-39-6]	0, 0990 ± 0, 0043	%
Mass fraction as the triglyceride (wet- mass basis)	omega-3 (Z,Z,Z,Z,Z)-5,8,11,14,17-Eicosapentaenoic acid (EPA) (C20:5 n-3)	[10417-94-4]	0, 296 ± 0, 019	%
Mass fraction as the triglyceride (wet- mass basis)	(Z,Z,Z,Z,Z)-7,10,13,16,19-Docosapentaenoic acid (DPA) (C22:5)	[24880-45-3]	0, 335 ± 0, 026	%
Mass fraction as the triglyceride (wet- mass basis)	(Z,Z,Z,Z,Z,Z)-4,7,10,13,16,19-Docosahexaenoic acid (C22:6) (DHA)	[6217-54-5]	0, 92 ± 0, 10	%
wet-mass basis	Methylmercury	[22967-92-6]	0, 394 ± 0, 015	mg/kg
wet-mass basis	Mercury (Hg) total		0, 433 ± 0, 009	mg/kg
wet-mass basis	Arsenic (As)	[7440-38-2]	0, 277 ± 0, 010	mg/kg
wet-mass basis	Iron (Fe)	[7439-89-6]	4, 00 ± 0, 32	mg/kg