

Fish tissue - contaminated with flame retardants polybrominated diphenyl ethers (PBDEs)

Art. ID	ERM-CE102
Unit	40 g
Deliverydetails	No Dangerous Good /not restricted

Description

ERM-CE102 is a fish tissue homogenate prepared from wild Wels catfish (*Silurus glanis*) and farmed rainbow trout (*Oncorhynchus mykiss*) and sterilised by heat treatment in autoclave. The CRM is available in glass jars, containing at least 40 g of fish paste, fitted with twist-off lids (featuring an indicator of vacuum integrity) and packed in plastic aluminium sachets / The certified values of ERM-CE102 are still valid within 1 day from the opening of a CRM unit, if the jar is immediately closed and stored at 4 °C in the dark /// ANALYTICAL METHODS USED FOR CERTIFICATION: GC-MS (Soxhlet extraction and clean-up with multilayer silica gel column or a combination of silica gel, carbon and alumina columns) / GC-HRMS (accelerated solvent extraction or extraction with organic solvents, clean-up with multilayer silica gel column and/or a combination of silica gel, carbon and alumina columns) / GC-MS/MS (Soxhlet extraction and clean-up with multilayer silica gel column).

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified value / Mass Fraction (relative to wet weight)	2,2',4,4'-Tetrabromodiphenyl ether (BDE 47)	[5436-43-1]	0,227 ± 0,019	µg/kg		
Certified value / Mass Fraction (relative to wet weight)	2,2',4,5'-Tetrabromodiphenyl ether (BDE 49)	[243982-82-3]	0,033 ± 0,007	µg/kg		
Certified value / Mass Fraction (relative to wet weight)	2,2',4,4',5-Pentabromodiphenyl ether (BDE 99)	[60348-60-9]	0,123 ± 0,013	µg/kg		
Certified value / Mass Fraction (relative to wet weight)	2,2',4,4',6-Pentabromodiphenyl ether (BDE 100)	[189084-64-8]	0,060 ± 0,006	µg/kg		
Certified value / Mass Fraction (relative to wet weight)	2,2',4,4',5,5'-Hexabromodiphenyl ether (BDE 153)	[68631-49-2]	0,069 ± 0,008	µg/kg		
Certified value / Mass Fraction (relative to wet weight)	2,2',4,4',5,6'-Hexabromodiphenyl ether (BDE 154)	[207122-15-4]	0,109 ± 0,008	µg/kg		
Indicative value / Mass Fraction (relative to wet weight)	2,4,4'-Tribromodiphenyl ether (BDE 28)	[41318-75-6]	0,0077 ± 0,0010	µg/kg		
Indicative value / Mass Fraction (relative to wet weight)	2,2',3,4,4',5',6-Heptabromodiphenyl ether (BDE 183)	[207122-16-5]	0,014 ± 0,004	µg/kg		

