

BT-9 Brominated Flame Retardants in Biota					
Year	2021	Number of Rounds / Year	2	Number of Materials	2
Distribution		April, October (25 laboratories expected)			
Participation fee		€750,=			

Introduction

This study covers the determination of brominated flame retardants (BFR's) in biota.

Test Materials

The test materials cover a range of natural unspiked biota types.

Wet biota test materials are homogenised and sterilised by autoclaving. Biota test materials have been shown to be stable over a number of years when stored at room temperature.

Determinands and concentration ranges

The BFR's to be determined are given in the table below. The table also shows:

- The expected concentration range for the determinands in the test materials.
- The constant and proportional error that will be used for assessment of the results.

Where available the AA-EQS (EU-WFD) is given.

Determinand	Unit	Concentration range	Error		AA-EQS
		Biota	Const	Prop	
BDE28	µg/kg	0.001 - 1	0.005	12.5%	0.0085
BDE47	µg/kg	0.05 - 40	0.005	12.5%	0.0085
BDE49	µg/kg		0.005	12.5%	
BDE66	µg/kg	0.01 - 10	0.005	12.5%	
BDE85	µg/kg	0.01 - 10	0.005	12.5%	
BDE99	µg/kg	0.01 - 10	0.005	12.5%	0.0085
BDE100	µg/kg	0.005 - 10	0.005	12.5%	0.0085
BDE153	µg/kg	0.01 - 2	0.005	12.5%	0.0085
BDE154	µg/kg	0.001 - 5	0.005	12.5%	0.0085
BDE183	µg/kg	0.001 - 1	0.005	12.5%	
BDE209	µg/kg	0.01 - 1	0.005	12.5%	
TBBP-A	µg/kg	0.01 - 1	0.005	12.5%	
Dimethyl-TBBP-A	µg/kg		0.005	12.5%	
α-HBCD	µg/kg	0.01 - 1	0.005	12.5%	
β-HBCD	µg/kg	0.01 - 1	0.005	12.5%	
γ-HBCD	µg/kg	0.01 - 1	0.005	12.5%	
Total-HBCD	µg/kg	0.01 - 2	0.005	12.5%	167
BTBPE	µg/kg		0.005	12.5%	
DBDPE	µg/kg		0.005	12.5%	
HBBz	µg/kg		0.005	12.5%	
HCBD	µg/kg		0.005	12.5%	
Total lipid	%		0.1	12.5%	

The AA-EQS for **BDE28**, **BDE47**, **BDE99**, **BDE100**, **BDE153** and **BDE154** is given as the sum for these congeners. Only determinands in **bold** are in the scope of the accreditation.