

Inorganic Constituents in Softwood Biomass Material

Art. ID	NIST-2791
Unit	2 x 30 g
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM) is intended for use in validating methods for the determination of elements in softwood biomass materials and similar matrices, and for qualifying in-house control materials. A unit of NIST-2791 consists of two bottles each containing approximately 30 g of material. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Mass Fraction	Arsenic (As)	[7440-38-2]	0,0067 ± 0,0016	mg/kg	ICP-MS/ IN AA	
Certified Mass Fraction	Caesium (Cs)	[7440-46-2]	0,00505± 0,00062	mg/kg	ICP-MS/ IN AA	
Certified Mass Fraction	Cobalt (Co)	[7440-48-4]	0,0551 ± 0,0044	mg/kg	ICP-MS/ IN AA	
Certified Mass Fraction	Iron (Fe)	[7439-89-6]	9,6 ± 2,8	mg/kg	INAA/ ICP- OES	
Certified Mass Fraction	Magnesium (Mg)	[7439-95-4]	155 ± 26	mg/kg	INAA/ ICP- OES	
Certified Mass Fraction	Manganese (Mn)	[7439-96-5]	39,92 ± 0,74	mg/kg	INAA/ ICP- OES	
Certified Mass Fraction	Mercury (Hg)	[7439-97-6]	0,00923± 0,00014	mg/kg	ID/CV ICP- MS	
Certified Mass Fraction	Potassium (K)	[7440-09-7]	428 ± 12	mg/kg	INAA/ ICP- OES	
Certified Mass Fraction	Selenium (Se)	[7782-49-2]	0,0165 ± 0,0035	mg/kg	ICP-MS/ IN AA	
Certified Mass Fraction	Sodium (Na)	[7440-23-5]	14,2 ± 1,6	mg/kg	INAA/ ICP- OES	
Certified Mass Fraction	Vanadium (V)	[7440-62-2]	0,0448 ± 0,0030	mg/kg	ICP-MS/ IN AA	
Certified Mass Fraction	Zinc (Zn)	[7440-66-6]	19,3 ± 3,7	mg/kg	INAA/ ICP- OES	
Reference Mass Fraction	Carbon (C)	[7440-44-0]	53,4 ± 1,1	%	PGAA	
Reference Mass Fraction	Hydrogen (H)	[1333-74-0]	6,39 ± 0,15	%	PGAA	
Reference Mass Fraction	Aluminium (Al)	[7429-90-5]	73,6 ± 1,0	mg/kg	INAA	

Reference Mass Fraction	Antimony (Sb)	[7440-36-0]	0,0399 ± 0,0015	mg/kg	INAA
Reference Mass Fraction	Boron (B)	[7440-42-8]	2,704 ± 0,089	mg/kg	PGAA
Reference Mass Fraction	Cadmium (Cd)	[7440-43-9]	0,0821 ± 0,0058	mg/kg	INAA
Reference Mass Fraction	Calcium (Ca)	[7440-70-2]	527 ± 53	mg/kg	INAA
Reference Mass Fraction	Cerium (Ce)	[7440-45-1]	0,1692 ± 0,0054	mg/kg	INAA
Reference Mass Fraction	Chlorine (Cl)	[7782-50-5]	37,1 ± 1,1	mg/kg	INAA
Reference Mass Fraction	Chromium (Cr)	[7440-47-3]	0,187 ± 0,033	mg/kg	INAA
Reference Mass Fraction	Copper (Cu)	[7440-50-8]	0,687 ± 0,043	mg/kg	ICP-OES
Reference Mass Fraction	Lanthanum (La)	[7439-91-0]	0,140 ± 0,029	mg/kg	INAA
Reference Mass Fraction	Rubidium (Rb)	[7440-17-7]	0,807 ± 0,024	mg/kg	INAA
Reference Mass Fraction	Samarium (Sm)	[7440-19-9]	0,01338 ± 0,00051	mg/kg	INAA
Reference Mass Fraction	Scandium (Sc)	[7440-20-2]	0,00615 ± 0,00038	mg/kg	INAA
Reference Mass Fraction	Silver (Ag)	[7440-22-4]	0,01491 ± 0,00063	mg/kg	INAA
Reference Mass Fraction	Thorium (Th)	[7440-29-1]	0,00507 ± 0,00015	mg/kg	INAA
Reference Mass Fraction	Titanium (Ti)	[7440-32-6]	55,6 ± 1,3	mg/kg	INAA
Reference Mass Fraction	Tungsten (W)	[7440-33-7]	0,0201 ± 0,0029	mg/kg	INAA
Reference Mass Fraction	Ash		0,52 ± 0,42	g/100 g	