

## **IPE Reference Material - Barley (straw) / Hordeum vulgare**

Art. ID                    WEPAL-IPE-236  
Unit                        20 g  
Deliverydetails        No Dangerous Good /not restricted

### Description

International Plant-Analytical Exchange (IPE) / The Wageningen Evaluating Programme for Analytical Laboratories (WEPAL) / Origin: Austria / Latest period: 2023.4

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Consensus Value	Copper (Cu)	[7440-50-8]	4,35 ± 0,504	mg/kg	Inorganic Chemical C omposition	
Consensus Value	Iron (Fe)	[7439-89-6]	432 ± 48	mg/kg	Inorganic Chemical C omposition	
Consensus Value	Manganese (Mn)	[7439-96-5]	21 ± 1,59	mg/kg	Inorganic Chemical C omposition	
Consensus Value	Zinc (Zn)	[7440-66-6]	19,9 ± 1,74	mg/kg	Inorganic Chemical C omposition	
Consensus Value	Arsenic (As)	[7440-38-2]	327 ± 32,4	µg/kg	Inorganic Chemical C omposition	
Consensus Value	Cadmium (Cd)	[7440-43-9]	29,8 ± 3,04	µg/kg	Inorganic Chemical C omposition	
Consensus Value	Cobalt (Co)	[7440-48-4]	153 ± 12,7	µg/kg	Inorganic Chemical C omposition	
Consensus Value	Chromium (Cr)	[7440-47-3]	1360 ± 252	µg/kg	Inorganic Chemical C omposition	
Consensus Value	Mercury (Hg)	[7439-97-6]	5,15 ± 0,882	µg/kg	Inorganic Chemical C omposition	
Consensus Value	Molybdenum (Mo)	[7439-98-7]	338 ± 49,9	µg/kg	Inorganic Chemical C	

Consensus Value	Nickel (Ni)	[7440-02-0]	504 ± 74,1	µg/kg	Inorganic Chemical C omposition
Consensus Value	Lead (Pb)	[7439-92-1]	454 ± 56,4	µg/kg	Inorganic Chemical C omposition
Consensus Value	Barium (Ba)	[7440-39-3]	13 ± 1,99	mg/kg	Inorganic Chemical C omposition
Consensus Value	Tin (Sn)	[7440-31-5]	53 ± 7,49	µg/kg	Inorganic Chemical C omposition
Consensus Value	Strontium (Sr)	[7440-24-6]	13,8 ± 0,83	mg/kg	Inorganic Chemical C omposition
Consensus Value	Calcium (Ca)	[7440-70-2]	4,68 ± 0,324	g/kg	Inorganic Chemical C omposition
Consensus Value	Chlorine (Cl)	[7782-50-5]	8,11 ± 0,569	g/kg	Inorganic Chemical C omposition
Consensus Value	Potassium (K)	[7440-09-7]	16,6 ± 0,98	g/kg	Inorganic Chemical C omposition
Consensus Value	Magnesium (Mg)	[7439-95-4]	1,64 ± 0,105	g/kg	Inorganic Chemical C omposition
Consensus Value	Kjeldahl as N		12,4 ± 0,59	g/kg	Inorganic Chemical C omposition
Consensus Value	Sodium (Na)	[7440-23-5]	302 ± 36,7	mg/kg	Inorganic Chemical C omposition
Consensus Value	Phosphorus (P)	[7723-14-0]	2,13 ± 0,134	g/kg	Inorganic Chemical C omposition
Consensus Value	Sulfur (S)	[7704-34-9]	1,85 ± 0,124	g/kg	Inorganic

				Chemical C omposition	
Consensus Value	C - elementary		439 ± 12,7	g/kg	Real total s
Consensus Value	N - elementary		12,9 ± 0,52	g/kg	Real total s
Consensus Value	Aluminium (Al)	[7429-90-5]	451 ± 107,1	mg/kg	Acid extra ctable (So -called to tals)
Consensus Value	delta 13C		-28,6 ± 0,21	‰ V-PDB	Other dete rminations
Consensus Value	delta 15N		1230 ± 29	‰ Air	Other dete rminations
Consensus Value	Crude fibre		204 ± 9,4	g/kg	Nutritiona l values
Consensus Value	Total ash		72,9 ± 3,7	g/kg	Nutritiona l values