

Quality control material - Loam (metals), elevated analyte levels

Art. ID AP-METRANAL-34
Unit 80 g
Deliverydetails No Dangerous Good /not restricted

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Dry mass at 105 °C	Arsenic (As)	[7440-38-2]	49,6 ± 3,0	µg/g	Total element content	
Dry mass at 105 °C	Barium (Ba)	[7440-39-3]	568	µg/g	Total element content	
Dry mass at 105 °C	Beryllium (Be)	[7440-41-7]	4,17 ± 0,18	µg/g	Total element content	
Dry mass at 105 °C	Cadmium (Cd)	[7440-43-9]	1,52 ± 0,15	µg/g	Total element content	
Dry mass at 105 °C	Cobalt (Co)	[7440-48-4]	20,0 ± 1,3	µg/g	Total element content	
Dry mass at 105 °C	Chromium (Cr)	[7440-47-3]	82,2 ± 6,3	µg/g	Total element content	
Dry mass at 105 °C	Copper (Cu)	[7440-50-8]	183 ± 5	µg/g	Total element content	
Dry mass at 105 °C	Mercury (Hg)	[7439-97-6]	0,223 ± 0,016	µg/g	Total element content	
Dry mass at 105 °C	Manganese (Mn)	[7439-96-5]	869 ± 34	µg/g	Total element content	
Dry mass at 105 °C	Nickel (Ni)	[7440-02-0]	33,3 ± 1,1	µg/g	Total element content	
Dry mass at 105 °C	Lead (Pb)	[7439-92-1]	93,4 ± 3,4	µg/g	Total element content	

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Dry mass at 105 °C	Vanadium (V)	[7440-62-2]	126 ± 7	µg/g	Total elem ent conten t
Dry mass at 105 °C	Zinc (Zn)	[7440-66-6]	227 ± 7	µg/g	Total elem ent conten t
Dry mass at 105 °C	Arsenic (As)	[7440-38-2]	42,4 ± 2,2	µg/g	Aqua regia extractab le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Barium (Ba)	[7440-39-3]	217	µg/g	Aqua regia extractab le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Beryllium (Be)	[7440-41-7]	2,69 ± 0,21	µg/g	Aqua regia extractab le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Cadmium (Cd)	[7440-43-9]	1,44 ± 0,07	µg/g	Aqua regia extractab le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Cobalt (Co)	[7440-48-4]	17,5 ± 0,9	µg/g	Aqua regia extractab le content according to ISO 11 466 (1995)

Dry mass at 105 °C	Chromium (Cr)	[7440-47-3]	46,3 ± 3,8	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Copper (Cu)	[7440-50-8]	167 ± 1	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Mercury (Hg)	[7439-97-6]	0,21	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Manganese (Mn)	[7439-96-5]	741 ± 36	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Nickel (Ni)	[7440-02-0]	30,4 ± 1,2	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Lead (Pb)	[7439-92-1]	83,1 ± 2,3	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Vanadium (V)	[7440-62-2]	95,1 ± 4,9	µg/g	Aqua regia extractable

					le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Zinc (Zn)	[7440-66-6]	198 ± 6	µg/g	Aqua regia extractab le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Arsenic (As)	[7440-38-2]	27,1 ± 2,9	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Beryllium (Be)	[7440-41-7]	2,17 ± 0,06	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Cadmium (Cd)	[7440-43-9]	1,44 ± 0,07	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Cobalt (Co)	[7440-48-4]	12,5 ± 0,6	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Chromium (Cr)	[7440-47-3]	27,3 ± 2,0	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Copper (Cu)	[7440-50-8]	159 ± 5	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Mercury (Hg)	[7439-97-6]	0,16	µg/g	Extract by boiling 2 mol/l HNO 3

Dry mass at 105 °C	Manganese (Mn)	[7439-96-5]	572 ± 35	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Nickel (Ni)	[7440-02-0]	21,4 ± 0,9	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Lead (Pb)	[7439-92-1]	82,6 ± 1,9	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Vanadium (V)	[7440-62-2]	48,9 ± 4,3	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Zinc (Zn)	[7440-66-6]	169 ± 8	µg/g	Extract by boiling 2 mol/l HNO 3
Dry mass at 105 °C	Arsenic (As)	[7440-38-2]	16,4 ± 1,8	µg/g	Extract by cold 2 mo l/l HNO3
Dry mass at 105 °C	Barium (Ba)	[7440-39-3]	142	µg/g	Extract by cold 2 mo l/l HNO3
Dry mass at 105 °C	Beryllium (Be)	[7440-41-7]	1,84 ± 0,08	µg/g	Extract by cold 2 mo l/l HNO3
Dry mass at 105 °C	Cadmium (Cd)	[7440-43-9]	1,36 ± 0,01	µg/g	Extract by cold 2 mo l/l HNO3
Dry mass at 105 °C	Cobalt (Co)	[7440-48-4]	9,42 ± 0,38	µg/g	Extract by cold 2 mo l/l HNO3
Dry mass at 105 °C	Chromium (Cr)	[7440-47-3]	14,6 ± 1,1	µg/g	Extract by cold 2 mo l/l HNO3

Dry mass at 105 °C	Copper (Cu)	[7440-50-8]	137 ± 4	µg/g	Extract by cold 2 mo I/I HNO ₃
Dry mass at 105 °C	Mercury (Hg)	[7439-97-6]	0,094 ± 0,014	µg/g	Extract by cold 2 mo I/I HNO ₃
Dry mass at 105 °C	Manganese (Mn)	[7439-96-5]	527 ± 24	µg/g	Extract by cold 2 mo I/I HNO ₃
Dry mass at 105 °C	Nickel (Ni)	[7440-02-0]	13,0 ± 0,7	µg/g	Extract by cold 2 mo I/I HNO ₃
Dry mass at 105 °C	Lead (Pb)	[7439-92-1]	71,7 ± 2,5	µg/g	Extract by cold 2 mo I/I HNO ₃
Dry mass at 105 °C	Vanadium (V)	[7440-62-2]	29,9 ± 2,3	µg/g	Extract by cold 2 mo I/I HNO ₃
Dry mass at 105 °C	Zinc (Zn)	[7440-66-6]	119 ± 5	µg/g	Extract by cold 2 mo I/I HNO ₃
dry weight, (% of the oxides)	SiO ₂		64,35	%	
dry weight, (% of the oxides)	Al ₂ O ₃		13,1	%	
dry weight, (% of the oxides)	CaO		2,07	%	
dry weight, (% of the oxides)	MgO	[1309-48-4]	1,29	%	
dry weight, (% of the oxides)	Fe ₂ O ₃		5,82	%	
dry weight, (% of the oxides)	K ₂ O		2,55	%	
dry weight, (% of the oxides)	Na ₂ O		0,72	%	
dry weight, (% of the oxides)	P ₂ O ₅		0,45	%	
dry weight, (% of the oxides)	TiO ₂		1,32	%	

xides)

at 900 °C

Loss on Ignition (LOI)

7,87