

AgroMAT™

A Family of Matrix Reference Materials for Agricultural Laboratories

AG-1 and AG-2 are soil standards for the analysis of macro and micro-nutrients together with pH, organic matter, nitrate and soluble salt.

AgroMAT™ standards are a cost effective solution for the validation of your internal standards or for routine quality control verification.



KEY FEATURES

- ◆ Soils for AgroMAT™ standards were obtained from experimental farm facilities. They have been tested using multiple extraction methods for certain parameters providing flexibility in the choice of analytical methods.
- ◆ The Reference Values are based on the results of a round-robin analysis performed by 33 laboratories located in the United States and Canada. All laboratories involved in the certification process are involved in agricultural analysis.
- ◆ A Certificate of Analysis (designed as per ISO Guide 31 – “Reference Materials - contents of certificates, labels, and accompanying documentation”) listing Certified Values as well as Confidence and Tolerance levels is included with each standard (Calculations follow protocols outlined in ISO Guide 35 – “Certification of Reference Materials”).
- ◆ Available in 175g, wide mouth bottles.

AgroMAT™ STANDARDS	SYMBOL	QUANTITY	CATALOG NUMBER
Soil, Clay	AG-1	175 g	140-025-101
Soil, Sandy	AG-2	175 g	140-025-102
Compost	CP-1	100 g	140-025-111

PlasmaPURE Acid

- Manufactured with trace metal levels less than 10 ppt (0.01 ppb)
- Complete with a detailed Certificate of Analysis



MK-AGROMAT-7-0-E

DigiPREP MS

Catalogue No. 010-500-205



- Digest 48 samples
- Teflon® coated graphite block resists corrosive acid attacks

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Catalogue Number: 140-025-102
Description: Matrix Reference Material
AgroMAT - Sandy soil AG-2-2
Lot Number: S131024029
Date of Initial Certification: April 14th, 2014 (Revised June 30th, 2014)
Date of Last Verification: N/A

Parameters	Extraction Method	Units	Consensus Value	Confidence Interval	Tolerance Interval
Phosphorus	Bray 1	ppm	(47.3)		
	Mehlich III	ppm	89.9	85.8 - 94.0	64.3 - 115.5
	Olsen	ppm	45.6	41.1 - 50.2	20.8 - 75.5
Potassium	Ammonium Acetate pH 7	ppm	364	341 - 387	224 - 504
	Mehlich III	ppm	398	380 - 416	286 - 511
Calcium	Ammonium Acetate pH 7	ppm	1370	1305 - 1435	995 - 1746
	Mehlich III	ppm	1484	1426 - 1543	1110 - 1859
Magnesium	Ammonium Acetate pH 7	ppm	134	124 - 144	72.9 - 195
	Mehlich III	ppm	186	178 - 194	133 - 238
Sodium	Ammonium Acetate pH 7	ppm	35.4	32.8 - 38.0	19.7 - 51.2
	Mehlich III	ppm	37.8	35.2 - 40.4	23.5 - 52.1
Zinc	DTPA	ppm	0.79	0.73 - 0.85	0.47 - 1.11
	Mehlich III	ppm	2.84	2.72 - 2.95	2.12 - 3.55
Manganese	DTPA	ppm	16.8	14.5 - 19.1	4.17 - 29.5
	Mehlich III	ppm	156	147 - 164	103 - 209
Copper	DTPA	ppm	1.26	1.17 - 1.35	0.791 - 1.72
	Mehlich III	ppm	1.25	1.09 - 1.41	0.270 - 2.23
Iron	DTPA	ppm	64.4	57.0 - 71.9	23.6 - 105
	Mehlich III	ppm	700	660 - 740	437 - 963
Boron	Hot Water	ppm	0.39	0.28 - 0.49	0 - 0.95
	Mehlich III	ppm	0.45	0.39 - 0.51	0.16 - 0.74
Sulfur	Mehlich III	ppm	15.2	14.6 - 15.8	11.9 - 18.5
Aluminum	Mehlich III	ppm	1354	1322 - 1387	1168 - 1541
pH	1 :1 (Soil:Water)	-----	6.89	6.86 - 6.93	6.67 - 7.12
	1 :2 (Soil:Water)	-----	7.02	6.98 - 7.07	6.76 - 7.29
	Saturated Paste	-----	6.85	6.74 - 6.96	6.33 - 7.37
	Buffer SMP	-----	7.06	6.95 - 7.17	6.53 - 7.59
Organic Matter	LOI	%	3.77	3.57 - 3.97	2.26 - 5.27
	Walkley Black	%	2.79	2.63 - 2.94	1.96 - 3.61
Nitrogen as Nitrate	KCl	ppm	27.3	26.6 - 28.0	22.3 - 32.3
Soluble Salts	1 :1 Soil :Water	uS/cm	(334)	----	----
	1 :2 Soil :Water	uS/cm	199	188 - 211	121 - 277
	Saturated Paste	uS/cm	(551)	----	----

Note : Values in bracket are not certified. They are listed for information only.

Certified by: Daniel Boismet

Date of receipt: _____