

AGRICULTURAL ANALYSIS

SOIL TESTING

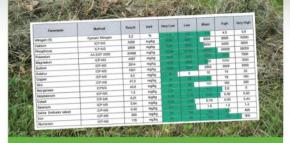
IAS Laboratories offer a range of soil analysis options which provide essential information on Soil Health and baseline Nutrient Status. It forms the basis for efficient and cost effective use of lime, fertilisers and trace elements. Soil testing is now a key component in Nutrient Management Planning and plays an important role in ensuring that the loss of nutrients from agriculture to surface water is minimised.

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IAS Laboratories specialise in soil analysis suites

- 1. Basic Soil Test: pH, P, K and lime requirement.
- 2. Basic + Organic Matter: pH, P, K, lime requirement plus organic matter.
- 3. Basic Soil Trace Elements: pH, P, K, lime requirement and trace element analysis. (Magnesium, Zinc, Manganese, Copper).
- 4. Soil Heavy Metals: Copper, Zinc, Cadmium, Chromium, Nickel, Mercury, Lead
- 5. Soil Structural Analysis: Sand, Silt and Clay Percentages
- 6. Cation Exchange Capacity: Measure of the soils ability to hold and release nutrients
- 7. Organic Matter



FORAGE ANALYSIS

1. Mineral Scan - Fresh Grass, Silage, Hay

Phosphorus, Potassium, Magnesium, Sodium, Sulphur,

2. Feed Evaluation/ Nutritional Information - Fresh Grass, Grass Silage/ Maize Silage/ Whole Crop Silage,

for correctly formulating diets for animals. <u>Test Includes:</u> DM, Protein, ME, NDF, Ash, Oil, Sugar, Nitrate, Buffering

3. Yeast, Mould, Mycotoxins - Hay, Grass

4. Pre Cut Silage – Sugars & Nitrates in Fresh Grass

Pre-cut grass testing can be used as a valuable tool to help in the decision making process during the production of grass silage (Results Same Day).

5. Crop Scan Tissue - Plant tissue sampling can help you identify nutrient deficiencies in a crop

MILK MINERAL SCAN

Mineral deficiencies and imbalances impact on herd performance under three broad categories:

- 1. Reduced fertility performance: silent heats, reduced conception rates, reabsorptions, abortions, tetany, milk fever etc.
- 2. Reduced thrive and immunity
- 3. Structural problems such as poor hoof quality.

Mineral analysis is an essential tool in diagnosing and quantifying the background mineral levels on a

Mineral Milk Scan: Magnesium, Selenium, Sulphur, Sodium, Copper, Zinc, Iodine, Iron, Calcium, Phosphorus, Potassium, Manganese, Molybdenum.

EXAMPLE OF MILK TEST RESULTS

Parameter	Method	Result	Unit	Guide Line Value	Buide Line Value
				Bovine	Dvine
Caldum	ICP-MS	1199	mg/kg	1100	1200
Potassium	AA SOP 2009	1310	mg/kg	1200	1400
Magnesium	ICP-MS	115	mpkg	100	100
Sodum*	ICP-MS	393	reging	360	350
Phosphorus	ICP-MS	970	mg/kg	1100	1200
Sulphur*	ICP-MS	301	mg/kg	250	250
Copper*	ICP-WS	99	up/kg	190	100
Zec'	ICP-WS	3915	ppAg	4200	4200
Manganese	ICPNS	65	ygikg	36	35
Molybdenum*	ICP-MS	53	µg/kg	38	35
Selenium*	ICP-MS	20	9940	26	25
ladine (Indicator Value Only)*	ICP-M8	92	µg/kg	100	100
Iron Ondicator Wilee Only)	ICP-MS	1715	upkp	<1000	<1000





MANURE & SLURRY ANALYSIS

Measuring and realising the true value of Farm Yard Manure and Slurry, in all types of farming systems, is becoming more and more critical. IAS carry out Slurry and Manure analysis for customers to enable them to make accurate savings in other fertilisers. The service comprises of the main analysis required with a report providing the fertiliser value of the farmyard manure.

Slurry/FYM: Total Nitrogen, Potassium, Phosphorus & Dry matter.

Slurry/FYM: Kjeldahl Nitrogen, Potassium, Phosphorus & Dry matter.

WATER TESTING



Did you know IAS Laboratories can test your Domestic Drinking Water to INAB Accreditation.

We also offer water testing for all your Bord Bia requirements as well as Chemical and Bacterial analysis of all water.

IAS Laboratory is an independent accredited analytical laboratory with over 30 years' experience. Originally as part of the Irish Sugar R & D, IAS Labs has become one of Ireland's leading Agricultural and Environmental Laboratories. IAS has an extensive and comprehensive testing capability providing services to a wide range of customers. The list of tests listed here are only a small example of the tests we carry out - for any specific requirements please contact sales@iaslabs.ie or phone 059 9721022.