

Inorganic Chemistry tests – St Lucia and Gatton

Inorganic analyses offered: AGFS ASU St Lucia and AGFS CAL Gatton
Instrument Analysis - commonly used procedures
Instrument analysis (samples received prepared extracted/digested)
ICPOES - analysis, single element
ICPOES - analysis for common 10 element suite in simple matrix – Ca, Mg, K, Na, P, S, Cu, Mn, Fe, Zn
ICPOES - analysis for common elemnts and heavy metals suite in simple matrix (20 elements)
Phosphate, ammonia, nitrate, nitrite, chloride - first test analysis/test
Phosphate, ammonia, nitrate, nitrite, chloride - additional test on above samples
LECO combustion total C, Total N, protein
Other analysis - Gravimetric / Colorimetric /Titrimetric
Gravimetric Moisture/moisture content
Gravimetric - Ash content only
ANKOM NDF Fibre, ash
ANKOM ADF Fibre, cellulose, lignin, ash
Crude Fibre
ANKOM Crude Fats
Ammonia in Rumen Fluid (Gatton CAL)
Colorimetric - basic UV/Vis reading (wavelength scans)
Colorimetric Soil Microbial Biomass
Colorimetric Soluble Carbohydrates
Colorimetric Starch
Amylose Analysis (Gatton CAL)
Colorimetric Sol Carbs & Starch
Colorimetric Polyphenols
Soil pH-EC
Solution pH-EC
TOC/TN liquid analyser/test (TOC or TN)
TOC/TN liquid analyser (TOC and TN)
Use of Bomb calorimeter (Gatton 8103-133)
Use of Freeze Drier (Gatton 8103-133)

Please note: requests will be provided with quotation.

Incremental discounts may be applied based on number of samples submitted for analysis.











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Sample Preparation - commonly used procedures
Sample preparation
Sample drying/ batch (20)
Plant grinding
Soil grinding (from 2mm to <0.5mm particle size)
Small sample grinding
Solution filtering
Grinding room use
Muffle Furnace use (Gatton 8103-133)
Extractions and digestions (sample preparation only)
Plant nitric-perchloric digestion
Plant hot block (nitric only) digestion
Soil/other substartes digestion microwave (HF)
Soil/other substrates digestion microwave (HF) and ICP-OES analysis
Soil/other substrates acid digestion - microwave, non HF
Plant/soil extraction (for nitrate/ammonium, chloride)
Soil extraction - Colwell Phosphorus
Soil extraction - KCl Nitrate-N/Ammonium-N
Soil extraction - KCl Nitrate-N/Ammonium-N and colorimetric analysis SEAL
Soil extraction - KCl Nitrate-N/Ammonium-N and colorimetric analysis SEAL (pre-weighed)
Soil extraction - NH ₄ Cl or Ammonium Acetate Exchangeable Cations
Soil extraction - Other Extractants Exchangeable Cations
Soil Extraction - Silver-Thiourea CEC
Soil Extraction - DTPA
Soil Extraction - CMP Sulphur
Soil Extraction - CaCl ₂ Boron
Soil Extraction - Mehlich-3 multi-element composition

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