

S1 Table. Protocol for soil physicochemical analysis

Soil parameters	Protocols
pH(H ₂ O)	Rayment & Higginson (1992)
pH(CaCl ₂)	Rayment & Higginson (1992)
Soil Organic Matter (SOM)	Walkley-Black method
Total nitrogen (N)	Kjeldahl method
Available Phosphorous (P)	Bray II extraction
Exchangeable Potassium (K)	NH ₄ OAC pH7 method/ Atomic Emission Spectroscopy (AES)
Exchangeable Calcium (Ca)	NH ₄ OAC pH7 method/ Atomic Absorption Spectroscopy (AAS)
Exchangeable Magnesium (Mg)	NH ₄ OAC pH7 method/ Atomic Absorption Spectroscopy (AAS)
Extractable Sulfur (S)	BaCl ₂ method
Available Iron (Fe)	DNTP/ AAS
Available Manganese (Mn)	DNTP/ AAS
Exchangeable Boron (B)	CaCl ₂ mannitol extraction
Cation Exchange Capacity (CEC)	NH ₄ OAC pH7/ Distillation
moisture	Oven-drying method
sand	Sieve/Hydrometer
slit	Sieve/Hydrometer
clay	Sieve/Hydrometer