



**Method Summary**

**Determination of Exchangeable Ammonium and Ammoniacal Nitrogen  
in Soil Samples**

**Scope and Range**

This method is suitable for the preparation and the subsequent determination of sludge and soil samples for exchangeable ammonium and ammoniacal nitrogen. The LOD is 15 mg/Kg. The method is accredited to the MCERTS standard.

**References**

Method 4500A & B, AWWA/APHA, 20th Ed., 1998 - Determination of Exchangeable Ammonium and Ammoniacal Nitrogen as N by titration on solids  
Methods for the Collection and Analysis of Samples from National Grid Sites

**Principle**

A sample of soil is shaken with potassium chloride solution, treated with magnesium oxide then steam distilled and the ammonia driven off. The ammonia is collected in boric acid.

Samples are analysed using titration against a known concentration of hydrochloric acid

**Interferences**

None known.