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## **Method Summary**

### **Determination of Hot Water Soluble Boron in Soils (10:1 Water:soil) by IRIS Emission Spectrometer**

#### **Scope and Range**

This method describes the analysis of water soluble boron extracted from solids, and analysed using ICP-OES spectrophotometry. The instrument calibration is capable of measuring levels up to 100mg/kg, with a detection limit of 1.0 mg/kg. The method is accredited to ISO17025 and MCERTS on sand, clay, and loam.

#### **Principle**

##### **Preparation and Extraction**

Dried and crushed sample is extracted with hot de-ionised water at a ratio of 10:1. The extract is filtered prior to analysis.

##### **Analysis**

Samples are analysed using a Optical Emission Spectrometer.

#### **Interferences**

None known