

Method Number: TM 229

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Method Summary**Determination of Phosphate (bicarbonate extractable)****Scope and Range**

This method is applicable to the preparation, extraction and analysis of soils and related materials using bicarbonate extraction solution.

The reportable LODs are <0.3mg/l as PO₄ in the extract, <2.0mg/l as mg/l P in soil, or <1.96 mg/kg as P in soil.

Phosphorous index can also be reported.

This method is accredited to ISO 17025 level for soils.

References

The Analysis of Agricultural Materials, MAFF, Third Edition 1986.

Specification for topsoil and requirements for use BS 3882:2015.

Principle

A soil density is performed so that results can be expressed in mg/l or mg/kg of sludge or soil.

Phosphate is determined colorimetrically post extraction.

Interferences

If the extracted samples are highly coloured this may cause interferences, and it may be necessary to dilute samples to reduce the effect.