

**Method Number: TM 303**

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**Method Summary****Determination of Acid and Alkali reserves on solids, pastes or gel samples****Scope and Range**

The method procedure is the determination of Acid or Alkali reserves of consumer products.

Method applicable to solid, paste or gels products.

Results are expressed as g.NaOH/100g

This method follows the Canada health standard method and has no accreditation.

**References**

Product Safety Laboratory Reference Manual; Test method section, method C-14.2, The Determination of Acid and Alkali reserves in consumer products; issue 26; 09/08/2000; Health Canada.

**Principle**

A 1:10 sample water mix is prepared and titrated with Sodium Hydroxide or Hydrochloric acid depending on the pH of the mix.

The acid reserve is analysed in sample with a pH of less than 4. The sample is titrated with standard sodium hydroxide, to pH4.

The alkali reserve is analysed in samples with a pH greater than 10. The sample is titrated with standard hydrochloric acid, to pH10.

**Interferences**

Soaps, oily matter, suspended solids or precipitates may impair the performance of the pH electrode resulting in a sluggish response.