



Edition: BP 2025 (Ph. Eur. 11.6 update)

## Kaolin Mixture

### [General Notices](#)

Kaolin Oral Suspension

### DEFINITION

Kaolin Mixture is an *oral suspension* containing 20% w/v of Light Kaolin or Light Kaolin (Natural) and 5% w/v each of Light Magnesium Carbonate and Sodium Bicarbonate in a suitable vehicle with a peppermint flavour.

It should be recently prepared unless the kaolin has been sterilised.

*The mixture complies with the requirements stated under Oral Liquids and with the following requirements.*

#### Content of magnesium, Mg

1.04 to 1.25% w/w.

#### Content of sodium bicarbonate, NaHCO<sub>3</sub>

4.05 to 4.65% w/w.

### TESTS

#### Acid-insoluble matter

13.8 to 18.4% w/w when determined by the following method. Dry and ignite the residue reserved in the Assay for magnesium to constant weight at red heat.

### ASSAY

#### For [magnesium](#)

To 3 g add 15 mL of [water](#), make acidic to [litmus paper](#) by the cautious addition of [2M hydrochloric acid](#), boil for 5 minutes, replacing the water lost by evaporation, cool and filter the supernatant liquid. Boil the residue with 20 mL of [water](#) and 10 mL of [2M hydrochloric acid](#), cool, filter through the same filter and wash the residue with [water](#) until the washings are free from chloride. Reserve the residue for the test for Acid-insoluble matter. Dilute the combined filtrate and washings to 100 mL with [water](#). To 20 mL add 0.1 g of L-[ascorbic acid](#), make slightly alkaline to [litmus paper](#) with 5M [ammonia](#) and add 10 mL of [triethanolamine](#), 10 mL of [ammonia buffer pH 10.9](#) and 1 mL of a 10% w/v solution of [potassium cyanide](#). Titrate with 0.05M [disodium edetate VS](#), using [mordant black 11 solution](#) as indicator, to a full blue colour. Each mL of 0.05M [disodium edetate VS](#) is equivalent to 1.215 mg of Mg.

#### For sodium bicarbonate

Boil 10 g with 100 mL of [water](#) for 5 minutes, filter, boil the residue with 100 mL of [water](#) for 5 minutes and filter. Combine the filtrates, cool and titrate with [0.5M hydrochloric acid VS](#) using [methyl orange-xylene cyanol FF solution](#) as indicator. Add 10 mL of [ammonia buffer pH 10.9](#) and titrate with 0.05M [disodium edetate VS](#) using [mordant black 11 solution](#) as indicator. After subtracting one-fifth of the volume of 0.05M [disodium edetate VS](#), each mL of [0.5M hydrochloric acid VS](#) is equivalent to 42.00 mg of  $\text{NaHCO}_3$ .