



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

## Light Kaolin

### [General Notices](#)

### Action and use

Antidiarrhoeal.

### Preparations

#### [Kaolin Mixture](#)

#### [Kaolin and Morphine Mixture](#)

When Kaolin or Light Kaolin is prescribed or demanded, Light Kaolin shall be dispensed or supplied unless it is ascertained that Light Kaolin (Natural) is required.

## DEFINITION

Light Kaolin is a native hydrated aluminium silicate, freed from most of its impurities by elutriation and dried. It contains a suitable dispersing agent.

## CHARACTERISTICS

A light, white powder free from gritty particles; odourless or almost odourless; unctuous.

Practically insoluble in [water](#) and in mineral acids.

## IDENTIFICATION

A. To 0.5 g in a metal crucible add 1 g of [potassium nitrate](#) and 3 g of [sodium carbonate](#) and heat until the mixture melts. Allow to cool. To the residue add 20 mL of boiling [water](#), mix and filter. Wash the residue with 50 mL of [water](#), add to the residue 1 mL of [hydrochloric acid](#) and 5 mL of [water](#), mix and filter. To the filtrate add 1 mL of [strong sodium hydroxide solution](#), filter and add to the filtrate 3 mL of [ammonium chloride solution](#). A gelatinous white precipitate is produced.

B. 0.25 g yields the reaction characteristic of *silicates*, [Appendix VI](#).

C. Triturate 2 g with 2 mL of [water](#). The resulting mixture flows.

## TESTS

## Coarse particles

Transfer 5 g to a stoppered cylinder (about 16 cm × 35 mm), add 60 mL of a 1% w/v solution of [sodium pyrophosphate](#), shake thoroughly and allow to stand for 5 minutes. Using a pipette, withdraw 50 mL from a point about 5 cm below the surface of the liquid. To the remaining liquid add 50 mL of [water](#), shake, allow to stand for 5 minutes and withdraw 50 mL in the same manner as before. Repeat the operation until a total of 400 mL of suspension has been withdrawn under the prescribed conditions. Transfer the remainder to an evaporating dish and evaporate to dryness on a water bath. The residue, after drying at 105°, weighs not more than 25 mg.

## Fine particles

Disperse 5 g in 250 mL of [water](#) by shaking vigorously for 2 minutes in a stoppered flask, pour immediately into a glass cylinder 5 cm in diameter and transfer 20 mL to a glass dish using a pipette. Evaporate to dryness and dry to constant weight at 105°. Allow the remainder of the suspension to stand for 4 hours at 20° and withdraw a second 20 mL portion using a pipette with its tip exactly 5 cm below the surface and without disturbing the sediment. Transfer the second portion to a glass dish, evaporate to dryness and dry to constant weight at 105°. The weight of the residue from the second portion is not less than 70% of the weight of the residue from the first portion.

## Arsenic

0.50 g dispersed in 25 mL of [water](#) complies with the [limit test for arsenic, Appendix VII](#) (2 ppm).

## Chloride

Boil 1.0 g with 80 mL of [water](#) and 20 mL of 2M [nitric acid](#) under a reflux condenser for 5 minutes, cool and filter. 15 mL of the filtrate complies with the [limit test for chlorides, Appendix VII](#) (330 ppm).

## [Loss on drying](#)

When dried to constant weight at 105°, loses not more than 1.5% of its weight. Use 1 g.

## Loss on ignition

When ignited at 600°, loses not more than 15.0% of its weight. Use 1 g.

## Soluble matter

Boil 2 g with 100 mL of 0.2M [hydrochloric acid](#) under a reflux condenser for 5 minutes, cool, filter and evaporate 50 mL of the filtrate to dryness. The residue, after ignition at about 600° for 30 minutes, weighs not more than 10 mg.