



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

Zinc Ointment

[General Notices](#)

DEFINITION

Zinc Ointment contains 15% w/w of Zinc Oxide in a suitable water-emulsifying basis.

Extemporaneous preparation

The following formula and directions apply.

Zinc Oxide, finely sifted	150 g
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Simple Ointment	850 g
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Triturate the Zinc Oxide with a portion of the [Simple Ointment](#) until smooth, gradually add the remainder of the [Simple Ointment](#) and mix thoroughly.

The ointment complies with the requirements stated under Topical Semi-solid Preparations and with the following requirements.

Content of zinc oxide, ZnO

14.0 to 16.0% w/w.

IDENTIFICATION

The residue obtained in the Assay is yellow when hot and white when cool.

ASSAY

Heat 0.5 g of the ointment gently in a porcelain dish over a small flame until the basis is completely volatilised or charred. Increase the heat until all the carbon is removed. Dissolve the residue in 10 mL of 2M [acetic acid](#) and add sufficient [water](#) to produce 50 mL. To the resulting solution add 50 mg of [xylenol orange triturate](#) and sufficient [hexamine](#) to produce a violet-pink colour. Add a further 2 g of [hexamine](#) and titrate with 0.05M [disodium edetate VS](#) until the solution becomes yellow. Each mL of 0.05M [disodium edetate VS](#) is equivalent to 4.069 mg of ZnO.