



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

## Zinc Sulfate Lotion

### [General Notices](#)

Zinc Sulphate Lotion  
Zinc Sulfate Cutaneous Solution

### DEFINITION

Zinc Sulfate Lotion is a *cutaneous solution*. It contains 1% w/v of Zinc Sulfate Heptahydrate in a suitable aqueous vehicle.

*The lotion complies with the requirements stated under Liquids for Cutaneous Application and with the following requirements.*

### Content of zinc sulfate heptahydrate, $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$

0.95 to 1.05% w/v.

### ASSAY

To 20 mL add 25 mL of 0.1M [hydrochloric acid](#) and 0.1 g of [activated charcoal](#), shake, filter and wash the residue with 100 mL of 0.01M [hydrochloric acid](#). To the combined filtrate and washings add 5 mL of [ammonia buffer pH 10.9](#) and titrate with 0.05M [disodium edetate VS](#) using [mordant black 11 solution](#) as indicator. Repeat the procedure using 20 mL of [water](#) in place of the preparation being examined. The difference between the titrations represents the amount of disodium edetate required. Each mL of 0.05M [disodium edetate VS](#) is equivalent to 14.38 mg of  $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$ .