## U.S. PHARMACOPEIA

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Sodium Lauryl Sulfate

Sulfuric acid monododecyl ester sodium salt.
Sodium monododecyl sulfate [151-21-3].
 sodium sulfate is not more than 8.0 percent.

Packaging and storage- Preserve in well-closed containers.

## Identification-

A: Ignite about 500 mg at $800^{\circ}$ until the carbon is consumed: the residue dissolved in 10 mL of water responds to the tests for Sodium $\left.\underline{191}\right\rangle$.
B: A solution (1 in 10) after acidification with hydrochloric acid and gentle boiling for 20 minutes, responds to the tests for Sulfate $\langle\underline{191}\rangle$.
Alkalinity—Dissolve 1.0 g in 100 mL of water, add phenol red TS , and titrate with 0.10 N hydrochloric acid: not more than 0.60 mL is required for neutralization.
Heavy metals, Method II $\langle\underline{231}\rangle: 0.002 \%$.
Organic volatile impurities, Method $I V\langle\underline{467}\rangle$ : meets the requirements.
 with 0.1 N silver nitrate VS . Each mL of 0.1 N silver nitrate is equivalent to 5.844 mg of NaCl .

## Sodium sulfate-

Lead nitrate solution- Dissolve 33.1 g of lead nitrate in water to make 1000 mL .




 $\mathrm{Na}_{2} \mathrm{SO}_{4}$.


 not more than $4.0 \%$ of the weight of the Sodium Lauryl Sulfate taken.


 minutes, cool, and weigh. The residue represents the total alcohols, and is not less than $59.0 \%$ of the weight of Sodium Lauryl Sulfate taken.
$\underline{\text { Residual solvents }}\langle\underline{467}\rangle$ : meets the requirements.
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