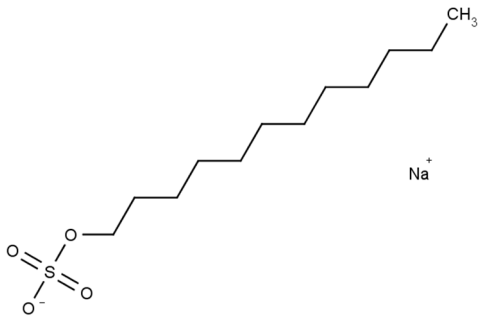
# Sodium Dodecyl Sulfate (SDS), ultra pure




**Catalog No:** 51430
**Lot No:** XXXXX
**Cas No:** 151-21-3
**Formula:** $C_{12}H_{25}NaO_4S$
**MW:** 288.38
**Supplied as:** solid
**Stability:** stable at room temperature

**Background**

SDS is commonly used in preparing proteins for electrophoresis in SDS-PAGE. This compound works by disrupting non-covalent bonds in the proteins, denaturing them, and causing the molecules to lose their native conformation. This new negative charge is significantly greater than the original charge of that protein. The electrostatic repulsion that is created by binding of SDS causes proteins to unfold into a rod-like shape thereby eliminating differences in shape as a factor for separation in the gel.

| **Tests** | **Specifications** |
|---|---|
| **Appearance:** | white crystalline powder |
| **Assay (titr.):** | ≥99.5% |
| **pH (0.1 M; $H_2O$; 25°C):** | 5.0 – 7.0 |
| **Water:** | ≤0.05% |
| **Chloride:** | ≤0.025% |
| **Pb:** | ≤0.0005% |
| **Abs. (1 cm/0.1 M in $H_2O$)** | |
| **$A_{260}$** | ≤0.04 |
| **$A_{280}$** | ≤0.025 |

**Usage**

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