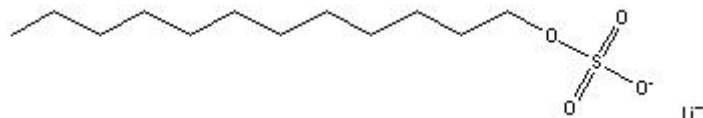


TECHNICAL INFORMATION

Catalog Number: 194830, 800752, 800753

Lithium dodecyl sulfate

Structure:

**Molecular Formula:** C₁₂H₂₅SO₄Li**Molecular Weight:** 272.33**CAS #:** 2044-56-6**Synonyms:** Lauryl sulfate, lithium salt; LDS**Physical Description:** White powder**Purity:** ~99%**Note:** Exhibits greater solubility than SDS at low temperatures**Critical Micelle Concentration (CMC):** 7-10 mM Detergents with high CMC values are generally easy to remove by dilution; detergents with low CMC values are advantageous for separations on the basis of molecular weight. As a general rule, detergents should be used at their CMC and at a detergent-to-protein weight ratio of approximately ten.^{1,2}

References:

- Womack, M.D., et al., *Biochim. Biophys. Acta*, v. **733**, 210 (1983)
- Matson, R.S. and Goheen, S.C., *LC-GC*, v. **4(7)**, 624 (1986)