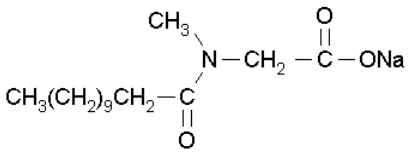
61743 *N*-Lauroylsarcosine sodium salt

Synonyms: Sarkosyl NL
N-Dodecanoyl-N-methylglycine sodium salt

CAS number: 137-16-6



Product Description:

Molecular Formula:	$C_{15}H_{28}NNaO_3$
Molecular Weight:	293.4 g/mol
pH:	pH 7.0-9.0 (25°C, 1 M in H_2O) [1]
A_{260nm} (1 M in H_2O):	0.2 [1]
A_{280nm} (1 M in H_2O):	0.06 [1]
λ_{max}:	220 nm, 265 nm [2]

Critical Micelle Concentration (CMC) 14.57 mM (30 °C) [3]

61743 BioUltra for molecular biology

Trace elemental analyses have been performed on this Bio Ultra qualitiy. BioUltra N-lauroylsarcosine sodium salt is for applications which require tight control of elemental content. The molecular biology quality is tested on the absence of Dnases, Rnases, Phosphatases and Proteases.
This product is an anionic detergent.[2] It aids in the solubilization and separation of membrane proteins, glycoproteins, isolation of RNA and plasmids.[4, 5, 6, 7, 8, 9] This detergent can also be used as an antifoaming supplement[5] or as a component of a lysing buffer of bacteria[8] or other cells.
It has been used to indicate paramagnetic anisotropy sign change in micelle mesophage.[10] It inhibits hexokinase.[11] Inhibition of bacterial flora of human saliva/gut at 0.25% as well as fungistatic activity in aqueous dispersion (1%) have been reported.[12]
The IR spectrum has been reported.[13] A method for determination of sodium laurate content in N-lauroylsarcosine has been reported.[14]

Solubility:
The product is soluble in water (100 mg/ml), yielding a clear to slightly hazy, colorless solution.

References:

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4. P. Gariglio, Useful for rupturing eukaryote cells in transcription studies *FEBS Lett.* **44**, 330 (1974)
5. R.J. MacDonald, In the guanidine hydrochloride method for the isolation of RNA. Improves purity of the initial RNA precipitate and avoids excessive foaming *Meth. Enzymol.* **152**, 219 (1987)
6. Wroblewski, W., Solubilization of *Spiroplasma citri* cell membrane proteins with the anionic detergent sodium lauroyl-sarcosinate (Sarkosyl). *Biochimie* **60**, 389 (1978)

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10. J. Phys. Chem., 85, 3244 (1981).
11. Arch. Biochem. Biophys., 55, 356 (1955).
12. Geigy Industrial Chemicals book, pp. 9-10.
13. J. Assoc. Off. Agr. Chemists, 38, 638 (1955).
14. J. Assoc. Off. Agr. Chemists, 37, 534 (1954).

Precautions and Disclaimer:
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.