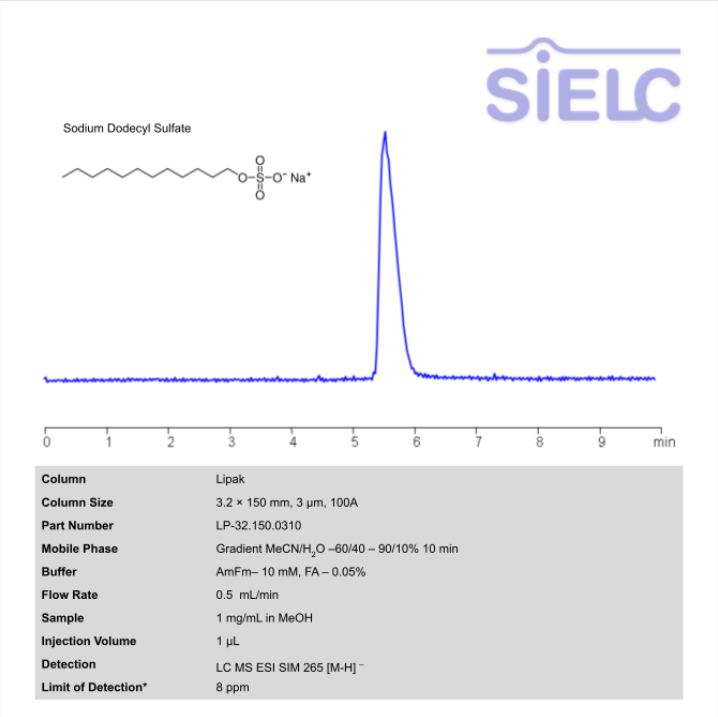
HPLC MS Method for Analysis of Sodium dodecyl sulfate on Lipak Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Sodium dodecyl sulfate .

Sodium dodecyl sulfate (SDS) , or sodium lauryl sulfate (SLS), is a surfactant used in cleaning, hygienic, and food products. It has a chemical formula C12H25NaSO4 , meaning it has twelve carbon hydrophobic tail attached to a polar sulfate. At low concentrations, it is used as a whipping aid and emulsifier in foods containing egg whites. It has a similar use in pharmaceutics as an ionic solubilizer and, also, an emulsifier. In laboratory uses, it is used as a component for lysing cells during RNA extraction or DNA extraction.

Sodium dodecyl sulfate can be retained and analyzed using the Lipak stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN) buffer. Detection is performed using LC MS.

Method Parameters

Column	Lipak, 3.2 x 150 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 60/40% – 90/10%
Buffer	Ammonium Formate 10 mM, Formic Acid – 0.05%
Flow Rate	0.5 mL/min
Detection	LCMSESISIM265 [M-H] –

Quelle: https://sielc.com/hplc-method-for-sodium-dodecyl-sulfate