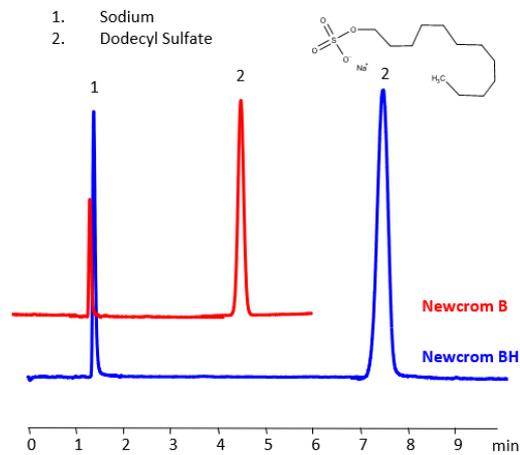


## HPLC Determination of Sodium Dodecyl Sulfate on Newcrom B Column



<b>Column:</b>	Newcrom B, Newcrom BH
<b>Column size:</b>	4.6 × 150 mm, 5 µm
<b>Mobile phase:</b>	MeCN/H <sub>2</sub> O – 70/30%
<b>Buffer:</b>	AmFm pH 3.0 – 60 mM
<b>Detection:</b>	CAD
<b>Flow rate:</b>	1.0 ml/min

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 C<sub>12</sub>H<sub>25</sub>NaSO<sub>4</sub> , 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 pharmaceuticals 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 Newcrom BH stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with an ammonium formate buffer. Detection is performed using UV.

### Method Parameters

<b>Column</b>	Newcrom BH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O – 70/30%
<b>Buffer</b>	AmFm pH 3.0 – 60 mM
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	CAD (Corona) MS- compatible mobile phase

Quelle: <https://sielc.com/hplc-determination-of-sodium-dodecyl-sulfate-on-newcrom-bh-column>