



Specification

**Streptomycin Sulfate *BioChemica***

**A1852**

<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A1852
<b>Product Name:</b>	Streptomycin Sulfate <i>BioChemica</i>
<b>Specifications:</b>	Activity: min. 720 I.U./mg pH (25 %; H <sub>2</sub> O; 25°C): 4.5 - 7.0 Loss on drying: max. 7 % Sulfate: 18 - 21 %
<b>Hazard pictograms</b>	 
<b>WGK:</b>	1
<b>Storage:</b>	RT
<b>Signal Word:</b>	Attention
<b>GHS Symbols:</b>	GHS07 GHS08
<b>H Phrases:</b>	H302 H361
<b>P Phrases:</b>	P280 P301+P312 P308+P313 P330 P405 P501
<b>Molecular Formula:</b>	(C <sub>21</sub> H <sub>39</sub> N <sub>7</sub> O <sub>12</sub> ) <sub>2</sub> · 3H <sub>2</sub> SO <sub>4</sub>

**AppliChem GmbH**

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<b>M:</b>	1457.38 g/mol
<b>CAS:</b>	3810-74-0
<b>EINECS:</b>	223-286-0
<b>CS:</b>	29412080
<p><b>Comment</b></p> <p>Streptomycin was isolated from <i>Streptomyces griseus</i>. It acts bacteriostatic at low concentrations and bactericidal at higher concentrations against mycobacteria and gram negative bacteria. It is less active against gram positive bacteria. Like other antibiotics, streptomycin does not act on non-proliferating microorganism. Streptomycin leads to reading errors during translation due to the interaction with the 30S subunit of the ribosome. The working concentration is normally in the range of 10 - 100 µg/ml. Stock solutions are set up in a range of 10 - 50 mg/ml in water and stored at -20°C. <b>Stability:</b> Streptomycin sulfate is readily water-soluble (20 mg/ml) but of low solubility in organic solvents. The dry substance is stable for several years at room temperature. Aqueous solutions (pH 3 - 7) are stable for approx. 2 months at room temperature, if stored at +4°C (pH 6 - 8) for three months. Do not autoclave solutions of streptomycin, because it is inactivated by 50 % at 100°C within minutes. Different oxidizing and reducing agents may inactivate the antibiotic.</p>	

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