


Specification

Saponin from Quillaja Bark (DAB) pure, pharma grade

A4518

Physical Description:	Solid
Product Code:	A4518
Product Name:	Saponin from Quillaja Bark (DAB) pure, pharma grade
Specifications:	<p>Extinction: max. 0.4</p> <p>Surface-tension [20°C, 0,1 % solution]: 35 - 55 dyn/cm</p> <p>pH (5 %; H₂O): 4 - 7</p> <p>Foam-rate: 6 - 17</p> <p>Specific density: 1.01 - 1.02 g/L</p> <p>Muddiness: max. 30 TE/F</p> <p>TLC: passes test</p> <p>Sapogenin content: 10 - 14 %</p>
Hazard pictograms	
WGK:	2
Storage:	RT
Signal Word:	Attention
GHS Symbols:	GHS07
H Phrases:	<p>H319</p> <p>H335</p>
P Phrases:	<p>P261</p> <p>P305+P351+P338</p>
CAS:	8047-15-2
EINECS:	232-462-6


AppliChem GmbH

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Specification

Saponin from Quillaja Bark (DAB) pure, pharma grade

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CS:	29389090
<p>Comment</p> <p>Saponin is a mixture of terpenoid molecules and glycosides. They permeabilize the cell membrane by interacting with cholesterol present in cell membrane. This results in pores, large enough for the entry of conjugated antibodies. To prevent the leakage of intracellular compounds (proteins, nucleic acids), they must first be treated with a cross-linking reagent such as formaldehyde (crosslinker). Saponin has become the detergent of choice for cytokine staining and phospho-epitope staining protocols. It is typically used at concentrations of 0.1 - 0.5 %. Because saponin is derived from a complex mixture of molecules, different lots vary considerably according to the manufacturer and natural source. Therefore, saponin lots should be titrated for optimal efficacy (3). Saponin can be dissolved in water at 37°C. Stock solutions (e. g. 10 %) are stored at 4°C.</p>	
<p>Bibliography</p> <p>(1)Francis, G. <i>et al.</i> (2002) <i>British J. Nutrition</i> 88, 587-605The biological action of saponins in animal systems: a review. (2)Santoni, G. <i>et al.</i> (2002) <i>Infect. Immun.</i> 70, 3804-3815<i>Candida albicans</i> expresses a Focal Adhesion Kinase-Like Protein That Undergoes Increased Tyrosine Phosphorylation. (3)Krutzik, P.O. <i>et al.</i> (2004) <i>Clin. Immunol.</i> 110, 206-221Analysis of protein phosphorylation and cellular signaling events by flow cytometry: techniques and clinical applications. (4)Melan, M.A. (1999) <i>Methods Mol. Biol.</i> 115, 45-55Overview of cell fixatives and cell membrane permeants.</p>	
	

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