

Specification

***n*-Octyl-β-D-Glucopyranoside BioChemica**

A1010

Physical Description:	Solid
Product Code:	A1010
Product Name:	<i>n</i> -Octyl-β-D-Glucopyranoside BioChemica
Specifications:	Assay (HPLC): min. 99 % α20°C/D; 5 %, H ₂ O: -33° ± 2° Identity (IR): passes test
WGK:	1
Storage:	2-8°C
Molecular Formula:	C ₁₄ H ₂₈ O ₆
M:	292.38 g/mol
CAS:	29836-26-8
EINECS:	249-887-8
CS:	29400000
Comment	Octylglucoside is one of the most commonly used detergents for membrane protein studies. It has many good properties, allowing the isolation of functional, active proteins. It is a non-ionic, readily water-soluble detergent with a high CMC (~25 mM), facilitating its removal by dialysis. Besides, it shows no absorption at 280 nm. Solutions, usually 30 mM, have to be prepared fresh.
Bibliography	(1)Baron, C. & Thompson, T.E. (1975) <i>Biochim. Biophys. Acta</i> 382 , 276-285Solubilization of bacterial membrane proteins using alkyl glucosides and dioctanoyl phosphatidylcholine. (2)Stubbs, G.W. <i>et al.</i> (1976) <i>Biochim. Biophys. Acta</i> 425 , 46-56Alkyl glucosides as effective solubilizing agents for bovine rhodopsin\; a comparison with several commonly used detergents. (3)Chattopadhyay, A. & London, E. (1984) <i>Anal. Biochem.</i> 139 , 408-412Determination of the CMC under exclusion of the charge of the detergent. (4)Lorber, B. <i>et al.</i> (1990) <i>Biochim. Biophys. Acta</i> 1023 , 254-265Purification of octylglucoside and determination of the CMC.