

Specification

Brij® 58 BioChemica

A1669

Physical Description:	Solid
Product Code:	A1669
Product Name:	Brij® 58 BioChemica
Headline Comment:	® registered trademark of Atlas Chemical Co.
Specifications:	Water (K.F.): max. 3 %
WGK:	2
Storage:	RT
Molecular Formula:	C ₅₆ H ₁₁₄ O ₂₁
M:	1123.51 g/mol
CAS:	9004-95-9
CS:	34021300
Comment	<p>Brij® 58 is a non-ionic detergent. Incubation of living cells with this detergent produces the so-called cytoskeleton. Proteins leak from the cells after a lag phase, depending on the detergent concentration, time of exposure and cell type (1). During this lag phase, lasting for 30 minutes in erythrocytes, the cytoplasm of the cells stays "intact" in the presence of the permeabilized membrane (3). Enzyme activity may be determined in the presence of Brij® 58. Up to a concentration of 0.5 %, the activity of protein kinase C from membrane fractions can be determined (2), the H⁺-ATPase from plant membranes is activated at a concentration of 0.05 % Brij® 58 (4-6). A stock solution of Brij® 58 is prepared by dissolving e.g. 50 mg/1 ml in hot water. The solution won't become clear.</p>
Bibliography	<p>(1)Ridsdale, J.A. & Clegg, J.S. (1991) <i>J. Cell. Physiol.</i> 147, 242-247 Evidence for cooperativity of protein dissolution in Brij® 58 permeabilized L929 cells. (2)Rush, J.S. <i>et al.</i> (1992) <i>Anal. Biochem.</i> 207, 304-310 Direct assay of membrane associated protein kinase C activity in B Lymphocytes in the presence of Brij® 58. (3)Kellermayer, M. <i>et al.</i> (1994) <i>J. Cell. Physiol.</i> 159, 197-204 Release of potassium, lipids and proteins from nonionic detergent treated chicken red blood cells. (4)Ibarz, E. <i>et al.</i> (1994) <i>Biochim. Biophys. Acta</i> 1196, 93-96 Activation of plant plasma membrane H⁺-ATPase by the non-ionic detergent Brij® 58. (5)Macrì, F. <i>et al.</i> (1994) <i>Biochim. Biophys. Acta</i> 1215, 109-114 Lipoxigenase activity associated with isolated soybean plasma membranes. (6)Córdoba, M.C. <i>et al.</i> (1995) <i>Biochem. Biophys. Res. Com.</i> 216, 1054-1059 Topography of the electron transport proteins from <i>Allium cepa</i> plasma membranes.</p>

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