


Specification

EDC Hydrochloride *BioChemica*

A1438

Physical Description:	Solid
Product Code:	A1438
Product Name:	EDC Hydrochloride <i>BioChemica</i>
Specifications:	Assay (titr.): min. 99 %
Hazard pictograms	
WGK:	1
Storage:	-20°C
Shipment:	RT
Signal Word:	Danger
GHS Symbols:	GHS05 GHS07
H Phrases:	H315 H318 H335
P Phrases:	P261 P305+P351+P338 P310 P321 P362+P364 P405 P501
Molecular Formula:	C ₈ H ₁₇ N ₃ · HCl

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Specification

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M:	191.70 g/mol
CAS:	25952-53-8
EINECS:	247-361-2
CS:	29252900
Comment Water-soluble carbodiimides are reagents for coupling and conjugation experiments, e. g. the binding of a peptide immunogen to a carrier protein. Thereby, carbodiimides catalyse the formation of an amide bond between carboxylic acid and amine under formation of an intermediate O-acylurea. If this reaction is performed in aqueous solutions, the addition of N-hydroxysulfosuccinimide may improve the yield, because the hydrolyses of the intermediate is reduced (3). EDC is applied in concentrations of 10 - 100 mM.	
Bibliography (1)Previero, A. <i>et al.</i> (1973) <i>FEBS Lett.</i> 33 , 135-138Solid phase sequential analysis\; specific linking of acidic peptides by their carboxyl ends to insoluble resins. (2)Thomas, J.O. <i>et al.</i> (1978) <i>J. Mol. Biol.</i> 123 , 149-161Altered arrangement of the DNA in injection-defective Lambda bacteriophage. (3)Staros, J.V. <i>et al.</i> (1986) <i>Anal. Biochem.</i> 156 , 220-222N-Hydroxysulfosuccinimide promotes the carbodiimide mediated coupling in aqueous solutions. (4)Verburg, J.G. <i>et al.</i> (1992) <i>J. Biol. Chem.</i> 267 , 3886-3893Selective modification of tyrosine residues in the active center of chitinase from <i>Zea mays</i> . (5)Chazot, P.L. <i>et al.</i> (1993) <i>Biochem. Pharmacol.</i> 45 , 605-610Examination of the magnesium ion binding site of the N-methyl-D-aspartate receptor.	

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