



R E A G E N T S

CHAPS

Synonym:	3-[(3-Cholamidopropyl)-dimethylammonio]-1-propanesulfonate acid	
Catalog Number:	CHBA5, CHBA25	
Molecular formula:	$C_{32}H_{58}N_2O_7S$	M: 614.89 g/mol
CAS Number:	75621-03-3	
Storage:	2-8°C	
Melting point:	116°C	
Classification:	zwitterionic detergent	
Aggregation n°. (Na):	9-10	
CMC (25°C):	4.2 - 6.3 mM	
pK_a (20C°):	7.55	
Assay (from N):	min. 99%	
Conductivity (0.1M):	max. 10.0 µS/cm	
Pb:	max. 0.005%	
Water (K.F.):	max. 4%	
N:	approx. 4.5%	
Na:	max. 0.005%	
A (1 cm/5% in water):		
290nm	max. 0.5	
400nm	max 0.02	

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Comments:

The detergent CHAPS is a derivative of cholate. It may be used e.g. at concentrations of 1 - 13 mM (1-3). CHAPS allows the isolation of many proteins in their native state, without losing much of its activity. Protein-protein interactions can be interrupted more efficiently as with Triton® X-100 or sodium cholate. CHAPS interferes with the Lowry protein assay.

Literature:

- (1) Simonds, W.F. et al. (1980) Proc. Natl. Acad. Sci. USA 77, 4623-4627 Solubilization of active opiate receptors.
- (2) Hjelmeland, L.M. (1980) Proc. Natl. Acad. Sci. USA 77, 6368-6370 A nondenaturing zwitterionic detergent for membrane biochemistry: Design and synthesis.
- (3) Bitonti, A.J. et al. (1982) Biochemistry 21, 3650-3653 Resolution and activity of adenylate cyclase compounds in a zwitterionic cholate derivative.

Ordering information

<i>Catalog N°</i>	<i>Size</i>
CHBA5	5g
CHBA25	25g

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