

Esterase EL-10

Triacylglycerol acylhydrolase, Triacylglycerol lipase
EC 3.1.1.3

Description:	esterification of primary alcohols. low activity with secondary alcohols		
Origin:	<i>Rhizopus niveus</i>		
Application:	organic syntheses		
Activity:	> 350 U/g	substrate: glycerintributyrate	
	> 100 U/g	substrate: olive oil	
	(methods: ASA Spezialenzyme GmbH)		
Esterification:	1) Primary alcohols with short- and long-chain carbonic acids e.g. citronellol + butyric acid/oleic acid		
	2) Secondary alcohols with short-chain carbonic acids e.g. menthol + butyric acid		
	3) amino acids with saccharides serin + mannose		
Parameters of reaction:	pH	optimum: 7.0	active within 5.0 – 8.0
	temperature	optimum: 45°C	active within 20 – 40°C
Dosage:	20 – 100 mg Esterase EL-10 per litre (reaction time: 1 – 5 hour, temperature = 40°C, pH 7.0)		
Order-No.:	2420		
Form of delivery:	light brown powder		
Storage:	4°C		