

Eucodis Lipase 001

Cat. No.	Amount
EL001	50 mg

Lot No. 0001110JM0211

For *in vitro* use only.

Store at 4-8°C.

Application

Lipase EL001 can be utilized as an enzyme catalyzing hydrolytic reactions.

Form

50 mg of cell extract

Powder, slightly brown, lyophilized

Protein content ~30 %

Specifications

Name: Lipase EL001
E.C.: 3.1.1.3
Origin: prokaryotic
Source: recombinant, E. coli
pH: 6.0-8.0
Temp. Optimum: 25-45 °C

Function

Lipases belong to the family of esterases and naturally act on triglycerides at lipid-water interfaces. Lipases/esterases can be

used as versatile tools in hydrolytic reactions, esterifications and transesterification reactions in industrial and food applications.

Usage

Lipase EL001 lyophilisate is partly soluble in water. Before use remove insoluble material by centrifugation. EL001 should be protected from high temperatures and excessive moisture.

Recommended restoration buffer:

20 mM phosphate, pH 7.4

Lipase EL001 was shown to hydrolyze p-Nitrophenol esters of the following acids (caprate: 14.13 U/mg total protein):

Substrate	relative activity [%]
acetate	3,7
butyrate	37,1
octanoate	16,2
caprate	100,0
palmitate	1,5

One unit is defined as hydrolysis of 1 μ mol ester per minute at 37°C at pH7.5 (n.d., not detectable).

EL001 will liberate fatty acids from triglycerides (olive oil) at 37°C and pH 7.5.