

Eucodis Lipase 003

Cat. No.	Amount
EL003	50 mg

Lot No. 0000510JM0209

For *in vitro* use only.

Store at 4-8°C.

Application

Lipase EL003 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 EL003
E.C.: 3.1.1.3
Origin: prokaryotic
Source: recombinant, E. coli
pH: 6.0-8.0
Temp. Optimum: 20-50°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 EL003 lyophilisate is partly soluble in water. Before use remove insoluble material by centrifugation. EL003 should be protected from high temperatures and excessive moisture.

Recommended restoration buffer:

20 mM phosphate, pH 7.4

Lipase EL003 was shown to hydrolyze p-Nitrophenol esters of the following acids (butyrate: 0.10 U/mg total protein):

Substrate	relative activity [%]
acetate	40
butyrate	100
octanoate	60
caprate	20
palmitate	n.d.

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