

Eucodis Lipase 009

Cat. No.	Amount
EL009	50 mg

Lot No. 0000110JM0127

For *in vitro* use only.

Store at 4-8°C.

Application

Lipase EL009 can be utilized as an enzyme catalyzing hydrolytic reactions.

Form

50 mg of cell extract

Powder, slightly brown, lyophilized

Protein content ~40 %

Specifications

Name: Lipase EL009
E.C.: 3.1.1.3
Origin: prokaryotic
Source: recombinant, E. coli
pH: 6.0-8.0
Temp. Optimum: 35-55°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 EL009 lyophilisate is partly soluble in water. Before use remove insoluble material by centrifugation. EL009 should be protected from high temperatures and excessive moisture.

Recommended restoration buffer:

20 mM phosphate, pH 7.4

Lipase EL009 was shown to hydrolyze p-Nitrophenol esters of the following acids (octanoate: 2.86 U/mg total protein):

Substrate	relative activity [%]
acetate	18
butyrate	80
octanoate	100
caprate	40
palmitate	n.d.

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

EL009 will liberate fatty acids from triglycerides (olive oil) at 37°C and pH 7.5.