

Eucodis Lipase 004

Cat. No.	Amount
EL004	50 mg

Lot No. 0001310JM0125

For *in vitro* use only.

Store at 4-8°C.

Application

Lipase EL004 can be utilized as an enzyme catalyzing hydrolytic reactions.

Form

50 mg of cell extract

Powder, slightly brown, lyophilized

Protein content ~25 %

Specifications

Name: Lipase EL004
E.C.: 3.1.1.3
Origin: prokaryotic
Source: recombinant, E. coli
pH: 6.0-8.0
Temp. Optimum: 60-70°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 EL004 lyophilisate is partly soluble in water. Before use remove insoluble material by centrifugation. EL004 should be protected from high temperatures and excessive moisture.

Recommended restoration buffer:

20 mM phosphate, pH 7.4

Lipase EL004 was shown to hydrolyze p-Nitrophenol esters of the following acids (acetate: 0.02 U/mg total protein):

Substrate	relative activity [%]
acetate	100
butyrate	57
octanoate	28
caprate	14
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).

EL004 will liberate fatty acids from triglycerides (olive oil) at 37°C and pH 7.5.