

Eucodis Lipase 013

Cat. No.	Amount
EL013	50 mg

Lot No. 0000810JM0128

For *in vitro* use only.

Store at 4-8°C.

Application

Lipase EL013 can be utilized as an enzyme catalyzing hydrolytic reactions.

Form

50 mg of cell extract

Powder, slightly brown, lyophilized

Protein content ~15 %

Specifications

Name: Lipase EL013
E.C.: 3.1.1.3
Origin: prokaryotic
Source: recombinant, E. coli
pH: 6.0-8.0
Temp. Optimum: 35-45°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 EL013 lyophilisate is partly soluble in water. Before use remove insoluble material by centrifugation. EL013 should be protected from high temperatures and excessive moisture.

Recommended restoration buffer:

20 mM phosphate, pH7.4

Lipase EL013 was shown to hydrolyze p-Nitrophenol esters of the following acids (butyrate 2.43 U/mg total protein):

Substrate	U/mg total protein
acetate	8
butyrate	100
octanoate	45
caprate	48
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).

EL013 will liberate fatty acids from triglycerides (olive oil) at 37°C and pH 7.5.