

Eucodis Lipase 044

Cat. No.	Amount
EL044	50 mg

Lot No. 0002210JM0224

For *in vitro* use only.

Store at 4-8 °C.

Application

Lipase EL044 can be utilized as an enzyme catalyzing hydrolytic reactions.

Form

50 mg of cell extract

Powder, slightly brown, lyophilized

Protein content ~57 %

Specifications

Name: Lipase EL044
E.C.: 3.1.1.3
Origin: prokaryotic
Source: recombinant, E. coli
pH: 6.0-8.0
Temp. Optimum: 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 EL044 lyophilisate is partly soluble in water. Before use remove insoluble material by centrifugation. EL044 should be protected from high temperatures and excessive moisture.

Recommended restoration buffer:

20 mm phosphate, pH 7.4

Lipase EL044 was shown to hydrolyze p-Nitrophenol esters of the following acids (butyrate: 6.75 mU/mg total protein):

Substrate	relative activity [%]
acetate	58
butyrate	100
octanoate	82
caprate	80
palmitate	16

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