

## Eucodis Lipase 038

Cat. No.	Amount
EL038	50 mg

Lot No. 0002010JM0223

For *in vitro* use only.

Store at 4-8 °C.

### Application

Lipase EL038 can be utilized as an enzyme catalyzing hydrolytic reactions.

### Form

50 mg of cell extract

Powder, slightly brown, lyophilized

Protein content ~50 %

### Specifications

Name: Lipase EL038  
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 EL038 lyophilisate is partly soluble in water. Before use remove insoluble material by centrifugation. EL038 should be protected from high temperatures and excessive moisture.

Recommended restoration buffer:

20 mm phosphate, pH 7.4

Lipase EL038 was shown to hydrolyze p-Nitrophenol esters of the following acids (butyrate: 7.24 mU/mg total protein):

Substrate	relative activity [%]
acetate	27
butyrate	100
octanoate	9
caprate	5
palmitate	n.d.

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