

### ★ Storage

Store at -20 °C.

### ★ Contents

- Product manual
- Lysozyme, From Chicken Egg White

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### ★ Description

Lysozyme is an enzyme capable of breaking down the bacterial cell wall, and is typically used to enhance protein extractions or nucleic acid extractions. It works by hydrolyzing the 1,4- $\beta$ -linkages located between the N-acetylmuramic acid and the N-acetyl-D-glucosamine residues in peptidoglycan.

Gram-positive cells have an increased susceptibility to the actions of lysozyme since gram-positive cells have a higher quantity of peptidoglycan in the cell wall. Gram-negative cells are less vulnerable, but can still be hydrolyzed in the presence of EDTA.

### ★ Product Specification

CAS NO	12650-88-3
Appearance	White to off-white powder
Enzymatic Activity	$\leq$ 45,000 FIP U/mg
Water Content	$\leq$ 8.0%
Sulfated Ash	$\leq$ 2.0%

### ★ Preparation for Stock Solution

1. Weigh out 10 mg of Lysozyme, Egg White into a microcentrifuge tube.
2. Add 1 mL of 10mM Tris-HCl, pH 8.0 and mix by pipet.
3. Store at 4°C for up to 1 month

### ★ Related Product

Product Name	Cat No
LB Broth, Miller	L2109
LB Agar, Lennox	L2201
LB Agar, Miller	L2202
Agar, Bacto	A2007
Ampicillin, Sodium salt	A4004
Kanamycin	CA004
DpnI Digest Master Mix , (10X)	D9500
DpnI. 20 units/ul	D9501
IPTG, Isopropyl-B-D-Thiogalactopyranoside	I0355
100mM IPTG Solution	I0356
T4 DNA Ligase, 1 units/ul	T2622
Yeast Extract	Y2007
Zenoquick Competent E.coli Transformation Kit	Z6001