



LYSOZYME HYDROCHLORIDE

Q.P. CORPORATION

Q.P. LYSOZYME HYDROCHLORIDE is a high quality enzyme extracted and refined from fresh chicken egg white by our original manufacturing process.

Our LYSOZYME HYDROCHLORIDE could be used in various kinds of products for the cosmetic and pharmaceutical industries.

WHAT IS LYSOZYME ?

Lysozyme was found in human mucus by A.Fleming in 1922 who also discovered penicillin.

Lysozyme is an enzyme which can hydrolyze the mucopolysaccharides of the cell wall of bacteria.

Lysozyme occurs in the natural world and is found in eggs, animal tissues, tears, saliva, mucus, blood, plant, etc.

Chicken egg white contains about 0.3% of lysozyme.

STABILITY

Q.P. LYSOZYME HYDROCHLORIDE is stable for 3 years in powder form even at ordinary temperature. The table below shows the stability of its solution.

Test Solution	·Lysozyme Hydrochloride	0.1 %
	·Methyl-parahydroxybenzoate	0.2 %
	·Purified water	99.7 %

Storing condition : Room temperature , 40°C

Results (mg potency/mg)

	start	1 week	1 month	2 months	3 months	6 months
R T	1.0	1.0	1.0	1.0	0.9	1.1
40	1.0	0.9	0.9	0.9	1.0	1.0

As shown above, the activity of 0.1% solution of lysozyme hydrochloride did not Deteriorate at room temperature or 40°C even after 6 months storage .

This indicates that our LYSOZYME HYDROCHLORIDE has a high stability .

SAFETY

LD₅₀(mice) of lysozyme hydrochloride is more than 5g/kg.

SPECIFICATIONS AND RESULTS (representative sample)

< for cosmetic >

	SPECIFICATIONS	RESULTS
pH	3.0 - 5.0 (3+200)	3.8
SOLUBILITY	1.5% solution has no more turbidity than *control solution. *Control solution : To 6mL of Standard Turbidity Solution add water to make 20mL, add 1mL of diluted nitric acid(1 : 3), 0.2mL of a solution of dextrin(1 : 50) and 1mL of silver nitrate TS, and allow to stand for 15 minutes.	Passed
LOSS ON DRYING	NMT 10.0 %	1.2 %
RESIDUE ON IGNITION	NMT 3.0 %	1.1 %
NITROGEN	15 - 18 %	18 %
LYSOZYME HYDROCHLORIDE	NLT 0.8mg(potency)/mg	1.0 mg(potency)/mg
AEROBIC PLATE COUNTS	NMT 100/g	NMT 10/g
E.COLI	Negative/10g	Negative/10g
MOLD AND YEAST	NMT 100/g	NMT 10/g

< for medical >

	SPECIFICATIONS	RESULTS
pH	3.0 - 5.0 (3+200)	3.8
SOLUBILITY	Clear(1.5% solution)	Passed
HEAVY METALS	NMT 20 ppm	NMT 20 ppm
LOSS ON DRYING	NMT 8.0 %	3.6 %
RESIDUE ON IGNITION	NMT 2.0 %	1.1 %
NITROGEN	16.8 - 18.6 %	17.9 %
ASSAY	NLT 0.9mg(potency)/mg	1.0 mg(potency)/mg
AEROBIC PLATE COUNTS	NMT 100/g	NMT 10/g
E.COLI	Negative	Negative
MOLD AND YEAST	NMT 100/g	NMT 10/g

USAGE

Medicines : Chronic sinusitis, Difficulty in expectoration attended with respiratory diseases, Chronic conjunctivitis, Intraoperative and postoperative bleeding of minor operations (dental and urinary operations), Skin ulcer, etc.

Medicated cosmetics : Medicated tooth paste, Medicated facial wash, etc.

Cosmetics : Facial wash cream, After shave lotion, After shave cream, etc.

STORAGE AND EXPIRATION PERIOD

Storage : Store at ordinary temperature and keep it away from high temperature and direct sunlight.

Expiration period : 3 years from manufacturing date. (unopened, at ordinary temperature)

PACKING

5 kg × 2
100g × 10



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