



Antibacterial Micro Zinc Oxide MZ-500

- It exhibits high antibacterial properties when measuring with minimum inhibitory concentration.
- Micro Zinc Oxide MZ-500 conforms to quasi-drug raw material standards.
- Has high transparency and UV shielding ability.

Product Information

Item	INCI	Appearance	Primary Particle Size (nm)	ZnO (%)
MZ-500	ZINC OXIDE	White	25	≥ 96.0

Antibacterial Test



Blank



Hand cream
containing 3% MZ-500

Agar medium : Mannitol Salt Agar with Egg Yolk
 Formulation : Hand cream containing 3% MZ-500(O/W)
 Test method : Apply an appropriate amount of the preparation to the entire palm,
 touch the agar medium, and incubate at 37°C for 48 hours.

Sample	MIC [$\mu\text{g/ml}$]	
	Staphylococcus aureus	E. coli
MZ-500	100	200
Silver-based inorganic antibacterial agent※	100~200	100~200

※From SIAA's HP

MIC measurement [SIAA]

Agar medium : Mueller-Hinton agar
 Test bacterial solution : Staphylococcus aureus NBRC 12732
 Escherichia coli NBRC 3972
 MIC : Minimum Inhibitory Concentration
 SIAA : Society of International sustaining growth for Antimicrobial Articles