



SUZHOU NMT BIOTECH CO.,LTD  
CHANGYANG STREET, SUZHOU SIP, JIANGSU, CHINA



### CERTIFICATE OF ANALYSIS

**PRODUCT NAME: CHOLINE CHLORIDE**

QUANTITY: 5000KG

CAS:67-48-1

BATCHNO.: 20240526

MFG. DATE:MAY.26, 2024

ASSAY DATE:MAY.26, 2024

EXP. DATE: MAY.25, 2026

ITEMS OF ANALYSIS	SPECIFICATION	RESULTS	TEST METHOD
Appearance	Colorless or white crystal or crystalline powder	Confirms	Visual
Assay	99%- 100.5%	99.57%	Titration
pH(1 in 10)	4.0-7.0	5.41	pH Meter
Lossing on drying	≤ 0.5%	0.09%	USP<921>
Residue on ignition	≤ 0.05%	0.02%	USP<281>
Lead(Pb)	≤ 0.3ppm	<0.3ppm	USP<251>
Arsenic (As)	≤ 1ppm	<1ppm	USP<211>
1,4-Dioxane	≤10ppm	Negative	USP<467>
Total Plate Count	≤1000CFU/g	<1000CFU/g	USP<2021>
Yeast and Mold	≤100CFU/g	<100CFU/g	USP<2021>
E.Coli	Negative	Negative	ISO7251
Salmonella	Negative	Negative	ISO6579
Individual Impurities	≤0.3%	<0.3%	USP39
Total Impurities	≤2.0%	≤2.0%	USP39

CONCLUSION:THE QUALITY IS IN CONFORMITY WITH THE USP STANDARD

PACKING:20KG/DRUM

SRORAGE:KEEP IT IN A COOL, DRY AND SHADY PLACE .