



ISO 9001 CERTIFIED
ISO 13485 CERTIFIED

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CERTIFICATE OF QUALITY

Product: CHOLINE CHLORIDE
Grade: HIGH PURITY GRADE
Code: 0448
Appearance: White powder
Mol. Formula: C5H14ClNO
Mol. Weight: 139.62

Description:

<u>Assay:</u>	<u>Min</u>	<u>Max</u>	<u>Units</u>	<u>Disposition</u>
1,4-Dioxane	PASS		P/F	PASS
Arsenic		0.0002	%	PASS
Heavy Metals		0.001	%	PASS
Moisture		0.5	%	PASS
pH (25%, Water) @25C	4.5	7.5		PASS
Purity (Anhydrous)	98.0		%	PASS
Residue on Ignition		0.05	%	PASS

Storage: Store at room temperature. Protect from moisture.

0448HPG

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature:

Title:

QC MANAGER

Date:

6/6/2012