

CERTIFICATE OF ANALYSIS

Product : **CHOLINE CHLORIDE**
 Product number : C0605
 Batch number : 013583
 Date of analysis : 24-04-2017
 Date of expiry : 30-04-2022

Packaging and storage : in a well closed, airtight container

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white crystals	complies		hygroscopic
Solubility	soluble in water	complies		
Identification	conform	complies		
Acidity or alkalinity	conform	complies		
Heavy metals	≤ 0.001	< 0.001	%	as Pb
Arsenic	≤ 0.0003	< 0.0003	%	
Lead	≤ 0.0002	< 0.0002	%	
Ammonium	conform	complies		
1,4-Dioxane	conform	complies		
Residual solvents	excluded by manufacturing process	complies		ICH Q3C
Residue on ignition	≤ 0.05	< 0.05	%	
Loss on drying	≤ 1.5	0.1	%	
Water	≤ 0.5	0.3	%	Karl Fischer
Assay	≥ 98.0	99.9	%	dried substance

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved
 Released by:

drs. M. van Wissen, pharmacist
 Department of Quality Control Duchefa B.V.

Date: 08-03-2018



The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.