



# Certificate of Analysis

1.02382.0500 Calcium chloride dihydrate for analysis EMSURE®  
ACS,Reag. Ph Eur  
Batch A0300882

	Spec. Values	Batch Values
Assay (complexometric)	99.0 - 102.0 %	100.1 %
Identity	passes test	passes test
Clarity of solution	passes test	passes test
Insoluble matter	≤ 0.01 %	≤ 0.01 %
Acidity or alkalinity	passes test	passes test
pH-value (5 %; water, 25 °C)	4.5 - 8.5	5.3
Sulphate (SO <sub>4</sub> )	≤ 0.005 %	≤ 0.005 %
Heavy metals (as Pb)	≤ 0.0005 %	≤ 0.0005 %
Al (Aluminium)	≤ 0.0001 %	≤ 0.0001 %
Ba (Barium)	≤ 0.003 %	≤ 0.003 %
Ba (Barium)	passes test	passes test
Cu (Copper)	≤ 0.0005 %	≤ 0.0005 %
Fe (Iron)	≤ 0.0003 %	≤ 0.0003 %
K (Potassium)	≤ 0.01 %	≤ 0.01 %
Mg (Magnesium)	≤ 0.005 %	≤ 0.005 %
Na (Sodium)	≤ 0.01 %	≤ 0.01 %
NH <sub>4</sub> (Ammonium)	≤ 0.005 %	≤ 0.005 %
Sr (Strontium)	≤ 0.05 %	≤ 0.05 %
Magnesium and alkali metals	≤ 0.5 %	≤ 0.5 %
Oxidizing substances (as NO <sub>3</sub> )	≤ 0.003 %	≤ 0.003 %

**Date of release (DD.MM.YYYY):** 07.06.2011  
**Minimum shelf life (DD.MM.YYYY):** 31.05.2016

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