

Certificate of Analysis

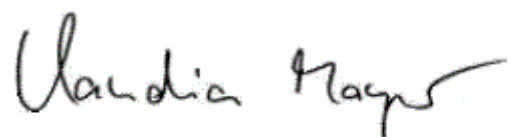
SIGMA-ALDRICH

Product Name	Calcium chloride dihydrate, ACS reagent, $\geq 99\%$
Product Number	223506
Product Brand	SIGALD
CAS Number	10035-04-8
Molecular Formula	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
Molecular Weight	147.01
Storage Temp	room temp

TEST

LOT S28238-158 RESULTS

QC Acceptance date	18-MAR-2005
APPEARANCE - COLOUR	WHITE
APPEARANCE - STATE	CRYSTALS
A.C.S.-TEST - BARIUM	<0.0050%
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EMISSION SPECTR. - ICP	CONFIRMS CALCIUM COMPONENT
A.C.S. TEST - IRON(%)	<0.001%
A.C.S. TEST - HEAVY METALS(AS PB)	<5PPM
A.C.S. TEST - INSOLUBLE MATTER (%)	<=0.01%
A.C.S. TEST - POTASSIUM(%)	<0.01%
A.C.S.-TEST - MAGNESIUM(%)	<0.005%
A.C.S. TEST - SODIUM(%)	<0.02%
A.C.S. TEST - AMMONIUM(%)	<0.005%
A.C.S. TEST - OXIDISING SUBSTANCES	<0.003%
PH	5.10
PH - CONCENTRATION	5% IN H ₂ O
A.C.S. TEST - SULFATE(%)	<0.01%
A.C.S.-TEST - STRONTIUM (%)	<0.1%
TITRATION VS AgNO ₃ - PURITY	100.4%

A handwritten signature in black ink, reading "Claudia Mayer". The script is cursive and fluid, with a long horizontal stroke at the end of the name.

Claudia Mayer
Manager Quality Control
Steinheim, Germany