



# Certificate of Analysis

1.02110.0000 Calcium hydroxide EMPROVE® ESSENTIAL Ph Eur,BP,USP,JP,FCC,  
E 526

Batch K50031610

	Spec. Values		Batch Values	
Assay (acidimetric)	95.0 - 100.5	%	97.4	%
Assay (complexometric, JP)	90.0 - 101.0	%	98.3	%
Identity	passes test		passes test	
Substances insoluble in hydrochloric acid	≤ 0.5	%	≤ 0.5	%
Carbonate (as CaCO <sub>3</sub> )	≤ 5.0	%	≤ 5.0	%
Carbonate (CO <sub>3</sub> )	passes test		passes test	
Chloride (Cl)	≤ 0.03	%	≤ 0.03	%
Fluoride (F)	≤ 0.0050	%	≤ 0.0050	%
Phosphate (PO <sub>4</sub> )	≤ 0.08	%	≤ 0.08	%
Sulfate (SO <sub>4</sub> )	≤ 0.08	%	≤ 0.08	%
Heavy metals (as Pb)	≤ 0.0020	%	≤ 0.0020	%
Al (Aluminium)	≤ 0.08	%	≤ 0.08	%
As (Arsenic)	≤ 0.0003	%	≤ 0.0003	%
Ba (Barium)	≤ 0.0300	%	≤ 0.0300	%
Cd (Cadmium)*	≤ 0.00010	%	< 0.00002	%
Cu (Copper)	≤ 0.0025	%	≤ 0.0025	%
Fe (Iron)	≤ 0.05	%	≤ 0.05	%
Mn (Manganese)	≤ 0.025	%	≤ 0.025	%
Ni (Nickel)*	≤ 0.0002	%	0.00010	%
Pb (Lead)*	≤ 0.0002	%	≤ 0.0002	%
Si (Silicon)	≤ 0.15	%	≤ 0.15	%
Sr (Strontium)	≤ 0.03	%	≤ 0.03	%
V (Vanadium)*	≤ 0.0010	%	0.00014	%
Zn (Zinc)	≤ 0.0025	%	≤ 0.0025	%
Magnesium and alcali salts	≤ 2.7	%	0.9	%
Residual solvents (ICH Q3C)	excluded by production process		excluded by production process	

Elemental impurity specifications have been set considering ICH Q3D (Guideline for Elemental Impurities). Class 1-3 elements are not likely to be present above the ICH Q3D option 1 limit, unless specified and indicated (\*).

Corresponds to Ph Eur, BP, JP, USP, FCC, E 526

Conforms to the purity criteria on food additives according to the current European Commission Regulation.

Date of examination (DD.MM.YYYY) 26.02.2020

Minimum shelf life (DD.MM.YYYY) 28.02.2025

Claudia Wiegand

Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.