



Certificate of Analysis

Material	VWRB556-1KG
Material description	Calcium chloride dihydrate
Grade	Ph.Eur./USP/BP/JP/ENDOTOXIN TESTED
Lot	16J285216
Expiration Date	2019 Nov 02
CAS Number	10035-04-8
Molecular formula	CaCl ₂ ·2H ₂ O
Molecular mass	147.01
Date of manufacture	2015 Nov 02
Made in	Czech Republic
Storage	Store between 15 °C and 30 °C.
Supplier	18140
Additional information	

Characteristics	Specifications	Measured values
Appearance	Fine white powder	Fine white powder
JP specifications:	.	.
Assay [JP]	96.7 --> 103.3 %	100.2 %
Identification	Passes test JP	Passes test JP
Ba (Barium)	Passes test JP	Passes test JP
Clarity and color of solution	Passes test JP	Passes test JP
Hypochlorite	Passes test JP	Passes test JP
Iron, aluminium and phosphate	Passes test JP	Passes test JP
pH [JP]	4.5 --> 9.2	5.4
Heavy metals (as Pb) [JP]	Max. 10 ppm	Max. 10 ppm
SO ₄ (Sulphate) [JP]	Max. 0.024 %	Max. 0.024 %
As (Arsenic) [JP]	Max. 2 ppm	Max. 2 ppm
Ph.Eur./BP specifications:	.	.
Assay [Ph.Eur./BP]	97.0 --> 103.0 %	101.2 %
Identification A	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Identification B	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Identification C	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Acidity or alkalinity	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Appearance of solution	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Al (Aluminium)	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Ba (Barium)	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Heavy metals (as Pb) [Ph.Eur./BP]	Max. 20 ppm	Max. 20 ppm
Magnesium and alkali metals [Ph.Eur./BP]	Max. 0.5 %	Max. 0.5 %
SO ₄ (Sulphate) [Ph.Eur./BP]	Max. 300 ppm	Max. 300 ppm
Fe (Iron) [Ph.Eur./BP]	Max. 10 ppm	Max. 10 ppm
USP specifications:	.	.
Assay [USP]	99.0 --> 107.0 %	100.3 %
Identification A	Passes test USP	Passes test USP

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For further manufacturing use only. Not for use as an Active Pharmaceutical Ingredient.



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Characteristics	Specifications	Measured values
Identification B	Passes test USP	Passes test USP
Iron, aluminium and phosphate	Passes test USP	Passes test USP
pH (25°C; 50 mg/ml) [USP]	4.5 --> 9.2	5.4
Heavy metals (as Pb) [USP]	Max. 10 ppm	Max. 10 ppm
Magnesium and alkali metals [USP]	Max. 1.0 %	Max. 1.0 %
Bacterial endotoxins	Max. 2.5 EU/g	Passes test

Signature

We certify that this batch conforms to the specifications listed above.

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

Anand Matta, Head of Laboratory - Aurora
VWR Chemicals, LLC, 220 Lena Dr., Aurora, OH 44202, USA

Additional information

No Class 1, 2, 3 or other residual solvents are present.

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