



Ciech
Soda Deutschland

CIECH Soda Deutschland GmbH & Co. KG * An der Löderburger Bahn 4a * 39418 Staßfurt

Certificate of Analysis

Contract 2020018 Order-No.: PO201017468
Delivery order 457489
Date 20.01.2020

Product: Sodium Bicarbonate, pharmaceutical grade
Standard granulation (NK)

Batch-No.: 030117113012020
Production Date: 13.01.2020
Retest/Expiry Date: 13.01.2022

<u>Chemical Analysis:</u>	limit value	current value
NaHCO ₃ content	%: 99,0 - 101,0	99,85
Normal Carbonate	%: meets USP requirements	
loss on drying%:	< 0,25 0,00	
Aspect of solution	: clear and colorless	clear and colorless
water-insoluble substances	%: meets USP requirements	
Carbonate pH (5 % solution in water)	: ≤ 8,6	8,1
Ammonium (NH ₄)	%: < 0,0020	< 0,0020
Aluminium (Al)	%: < 0,0002	< 0,0002
Arsenic (As)	%: < 0,0002	< 0,0002
Calcium (Ca)	%: < 0,0100	< 0,0100
Magnesium (Mg)	%: < 0,0040	< 0,0040
Copper (Cu)	%: < 0,0001	< 0,0001
Iron (Fe)	%: < 0,0005	0,0001
Heavy metals (Pb)	%: < 0,0010	< 0,0005
Chloride (Cl)	%: < 0,0150	0,0014
Sulfur Compounds (SO ₄)	%: < 0,0150	< 0,0150
Bulk density (g/ml)	: 0,950 - 1,200	1,160

Grain Size Distribution:

< 0,500 mm/%	: 95 - 100	100
< 0,315 mm/%	: 90 - 100	99,9
< 0,200 mm/%	: 70 - 95	94,1
< 0,100 mm/%	: 25 - 65	56,5

We hereby certify that the above product is up to and analyzed in accordance with the present edition of the PH.EUR/USP/BP Pharmacopoeia.

Schug
Head of Quality Control

This document was created using computer system.

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