

 © Przedsiębiorstwo Przemysłowo-Handlowe „STANDARD” sp. z o.o. ul. Olszewskiego 10 20-481 LUBLIN POLAND Tel. +48 81 7100 500 fax. +48 81 7100 505 NIP 712-015-28-51 E-mail: chemia@standard.pl website: www.standard.pl	Number 21-024994	
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Quality department

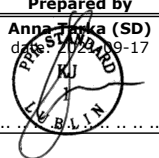
Certificate of Quality

Product name	CAFFEINE ANHYDROUS pharma grade
Formula	C₈H₁₀O₂N₄
Type	For pharma industry
Delivery Lot	21-024994
Batch number(s)	1032106710Trace:01; 1032106710Trace:02; 1032106710Trace:03; 1032106710Trace:04; 1032106710Trace:05;
Net weight	
Packaging	
Certificate used for	

No.	Parameters	Unit	Guaranteed parameters	Results				
				1032106710Trace:01	1032106710Trace:02	1032106710Trace:03	1032106710Trace:04	1032106710Trace:05
1.	Appearance	.	white or almost white, crystalline powder or crystals	conforms	conforms	conforms	conforms	conforms
2.	Melting point	°C	234,0 - 239,0	235,0 - 237,5	235,0 - 237,5	235,0 - 237,5	235,0 - 237,5	235,0 - 237,5
3.	Identification	.	in conformity with a standard	conforms	conforms	conforms	conforms	conforms
4.	Assay	%	98,5 - 101,0	99,9	99,8	99,9	99,9	100,0
5.	Appearance of solution	.	clear, colorless	conforms	conforms	conforms	conforms	conforms
6.	Sulphates	max ppm	500	<500	<500	<500	<500	<500
7.	Related substances	.	:	:	:	:	:	:
8.	- impurities A, B, C, D, E, F	max %	0,1	<0,1	<0,1	<0,1	<0,1	<0,1
9.	- other impurities	max %	0,1	<0,1	<0,1	<0,1	<0,1	<0,1
10.	- total impurities	max %	0,1	<0,1	<0,1	<0,1	<0,1	<0,1
11.	Acidity	max ml 0,01M NaOH	0,2	<0,2	<0,2	<0,2	<0,2	<0,2
12.	Organic Impurities	.	:	:	:	:	:	:
13.	- individual impurities	max %	0,1	<0,1	<0,1	<0,1	<0,1	<0,1
14.	- total impurities	max %	0,1	<0,1	<0,1	<0,1	<0,1	<0,1
15.	Loss on drying	max %	0,5	0,07	0,1	0,08	0,03	0,04
16.	Residue on ignition	max %	0,1	0,04	0,06	0,03	0,05	0,02
17.	Pb	max ppm	1	<1	<1	<1	<1	<1
18.	Cd	max ppm	0,15	<0,15	<0,15	<0,15	<0,15	<0,15
19.	As	max ppm	2	<2	<2	<2	<2	<2
20.	Hg	max ppm	0,9	<0,9	<0,9	<0,9	<0,9	<0,9
21.	Total plate count in 1g	max .	1000	<1000	<1000	<1000	<1000	<1000
22.	Yeast and moulds	max .	100	<100	<100	<100	<100	<100
23.	E.Coli in 1g	.	absent	absent	absent	absent	absent	absent
24.	Salmonella in 25g	.	absent	absent	absent	absent	absent	absent
25.	Norm	.	BP/EP/USP	BP/EP/USP	BP/EP/USP	BP/EP/USP	BP/EP/USP	BP/EP/USP

Certificate is issued according to producer / supplier quality certificate 1.

Production date: 06.2021
Use-by date: 05.2025

Prepared by	Confirmed
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