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Test report no. AR-14-JK-025656-01

Name and address of the Client:

CHEMNOVATIC
Ławecki Gęca Sp. j.
Dobrzańskiego 3, lok. BS002
20-262 Lublin

Sample received: 14.01.2014
Analysis finished: 20.03.2014
Sample
Sample description: PHARMACEUTICAL GRADE NICOTINE 51/13/NIC
Batch: 131125/NIC
Production date: 20.11.2013
Expiry date: 19.11.2015
Type: nicotine
Sample weight: no data
Sample condition: no data
Reception temperature: no data
Internal sample code: P20.01.14
Client order no.: no data
Client order date: 03.12.2013
Sampled by the Client/ ~~Contractor*~~
Delivered by the Client/ ~~Contractor*~~

No.	Type of analysis	Method		Results
1.	**Appearance (visual)**	EP 8.0, visual	PA	**brownish viscous liquid**
	Appearance of solution			
2.	**Colour**	EP 8.0, method 2.2.1 + 2.2.2	PA	**< BY5**
3.	**Clarity**		PA	**clear against water**
4.	**Identification (IR) - infrared spectrum**	EP 8.0, method 2.2.24	PA	**corresponds**
5.	**Specific optical rotation**	USP36 / NF31, method <781S>	PA	**-143°**
6.	**Specific optical rotation**	EP 8.0, method 2.2.7	PA	**-149°**
7.	**Water**	EP 8.0, method 2.5.12	PA	**0,1 %**
8.	**Heavy metals (as Lead)**	USP36 / NF31, <231>, method II	PA	**passes test**
	Related substances	EP 8.0, method 2.2.29	PA	**corresponds/see below**
9.	**Impurity A- Anatabin**		PA	**< 0,3 %**
10.	**Impurity B- Beta-nicotyrin**		PA	**< 0,3 %**
11.	**Impurity C- Cotinin**		PA	**< 0,3 %**
12.	**Impurity D- Myosmin**		PA	**< 0,3 %**
13.	**Impurity E- Nicotin N'-oxid**		PA	**< 0,3 %**
14.	**Impurity F- Nornicotin**		PA	**< 0,3 %**
15.	**Impurity G- Anabasin**		PA	**< 0,3 %**
16.	**Impurity A, B, C, D, E, F, G**		PA	**< 0,3 %**
17.	**individual impurity**		PA	**< 0,10 %**
18.	**All impurities (total)**		PA	**< 0,8 %**
19.	**Chromatographic purity**	USP36 / NF31, monograph, GC	PA	**corresponds**

„ PA" – accredited tests done by a subcontractor, „PN" – unaccredited tests done by a subcontractor.
The test results refer exclusively to the sample analyzed. Test reports without written permission of the Nuscana company can be duplicated only as a whole. The Client has the right to complain in 14 days after receiving the test report. Test report was made in two copies (one for the Client, second for Nuscana).
*- delete if not applicable
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20.	**individual impurity**		PA	**< 0,5 %**
21.	**total impurity**		PA	**< 1,0 %**
22.	**Assay calculated on the anhydrous substance**	EP 8.0, titration, according to monograph	PA	**99,9 %**
23.	**Identification UV (Ultraviolet Absorption)**	USP36 / NF31, <197U>	PA	**corresponds**

NOTES:

The report contains 23 test results.

Document preparation date: 25.03.2014	Verified by: *Julia Cychnerska* Julia Cychnerska

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