

Certificate of Analysis

Product: Caninsulin 1x10ml
Batch: A307A01



Country: **Hungary**
Sales Order Number: **1102961304 / 10**
Delivery Number: **1203829159 / 900001**

Material Number:
039339

Package Size:
10 ML

Manufacturing Date: **13-Jun-2013**
Expiry Date: **May-2015**

Storage Conditions:
2-8°C

CERTIFICATION BY THE MANUFACTURER

I herewith certify that the presented information is authentic and accurate. All measures have been taken to demonstrate compliance with Directive 2001/82/EC as amended. This batch has been manufactured /fabricated (incl. APIs and intermediates if applicable) including packaging and quality control, in full compliance with the GMP requirements of the local Regulatory Authority and with the specifications in the Marketing Authorization of the importing country. The batch processing, packaging and analysis records were reviewed and found to be in compliance with GMP.

Name:
Function:
Date:
Signature:

**This document has been
created electronically
and is valid without signature**

Dr. Susanne Jost, Qualified Person

Certificate of Analysis

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 Batch: **A307A01**



Results of Analysis

<u>Test</u>	<u>Method</u>	<u>Specification</u>	<u>Result</u>
Characters - Color	Visual Examination	White or Almost White	Complies
Characters - Physical State	Visual Examination	Suspension	Complies
Color (supernatant)	Ph. Eur. 2.2.2.	≤ B9	Complies
Clarity (supernatant)	Ph. Eur. 2.2.1.	Opalescence ≤ Reference I	Complies
pH	Ph. Eur. 2.2.3	6.9 - 7.8	7.2
Particle Size Amorphous: 100 % ≤ 2 µm	Light Microscopy	Rarely Exceeding 2 µm	Complies
Particle Size rhombohedral: 10 - 40 µm	Light Microscopy	> 10 µm, but Rarely Exceeding 40 µm	Complies
Resuspendability	Visual Examination	≤ 30 Seconds	Complies
Assay, Total Zinc	AAS	48 - 100 µg/mL	78 µg/mL
Assay, Zinc Supernatant	AAS	20 - 65 %	59 %
Extractable Volume	Ph. Eur. 2.9.17.	10.0 - 11.0 mL	10.1 mL
Fill Volume	Weight Measurement	10.0 - 11.0 mL	10.3 mL
Identification Insulin	HPLC	Rt of the Corresponding Peaks Comply	Complies
ID Methyl Parahydroxybenzoate	HPLC	Rt and Size of the Corresp. Peaks Comply	Complies
Assay Methyl Parahydroxybenzoate	HPLC	0.90 - 1.10 mg/mL	1.00 mg/mL
Assay Insulin + A21 Desamido Insulin	HPLC	36.0 - 44.0 IU/mL	40.9 IU/mL
Assay Insulin, non extractable	HPLC	63 - 77 %	64 %
Assay Insulin, in Solution	HPLC	≤ 1.0 IU/mL	0.2 IU/mL
Rel. Sub., A21 Desamido Porcine Insulin	HPLC	≤ 5.0 %	1.1 %
Related Proteins, (Sum Other)	HPLC	≤ 6.0 %	0.8 %
Impur. with Mol.Mass > Insulin	HPLC	≤ 2.0 %	0.2 %
Bacterial Endotoxins	Ph. Eur. 2.6.14.	≤ 31 IU/mL	31 IU/mL
Sterility	Ph. Eur. 2.6.1.	No Growth Detectable	Complies