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CERTIFICATE OF ANALYSIS

Sigma-Aldrich Laborchemikalien GmbH D-30918 Seelze

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Seelze, 02.08.2012/415347/12/15713

Order-No.: Customer-No.:

Order-Code:

Quantity:

Production Date: 18.Jul.2012 Expiry Date: 18.Jul.2017

Article/Product: 34014 Batch: SZBC200XV

Loperamide hydrochloride VETRANAL

Reference Material (RM)

1. General Information

Formula: C29H33ClN2O2 . HCl Molar mass: 513.50 g/Mole

CAS-No.: [34552-83-5] Recomm. storage temp.: roomtemp.

Usage :

The estimated uncertainty of a single measurement of the assay can be expected to be 0.5 % relative (confidence level = 95%, n= 6) whereby the assay measurements are calculated by 100% minus found impurities.

2. Batch Analysis

Identity (NMR)complyingAssay (HPLC)99.9area %Melting range223.6-226.2 °CWater (Karl Fischer)0.2 %Date of Analysis01.Aug.2012

3. Advice and Remarks

- The minimum shelf life is based on the current knowledge and holds only for proper storage conditions in the originally closed flasks/ packages.
- Whenever the container is opened for removal of aliquous portions of the substance, the person handling the substance must assure, that the integrity of the substance is maintained and proper records of all its handlings are kept. Special care has to be taken to avoid any contamination or adulteration of the substance.
- We herewith confirm that the delivery is effected according to the technical delivery conditions agreed.
- Particular properties of the products or the suitability for a particular area of application are not assured.
- We guarantee a proper quality within our General Conditions of Sales.

Sigma-Aldrich Laborchemikalien GmbH Quality Management SA-LC

HPLC-Method

: Loperamide hydrochloride Article

: 34014 Article-No : SZBC200XV Batch

: L=150mm, ID=4,6mm; Discovery HS-C18 5 μ m : 50 % Acetonitrile Column

Eluent

50 % Water + 0,36% TMAOH*5H2O, pH2,5

Flow : 1,4ml/min : UV-220nm Detector Injection-Volume : 20µ1

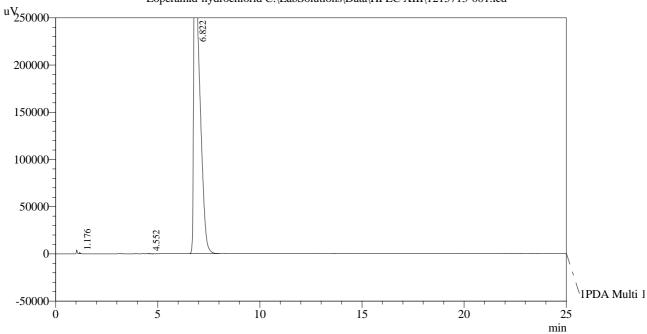
Sample-Preparation : 0,2mg/ml Eluent

Linearity : checked

Evaluation : Normalisation (uncorrected)

Operator : Schowe

Chromatogram Loperamid-hydrochlorid C:\LabSolutions\Data\HPLC XIII\1215713-001.lcd



1 PDA Multi 1 / 220nm 4nm

PeakTable

PDA Ch1 220nm 4nm Peak# Ret. Tin

геак#	Ret. Time	Area	Area %
1	1.176	3788	0.056
2	4.552	2562	0.038
3	6.822	6752078	99.906
Total		6758428	100.000