

Certificate of Analysis

Reference Substance

Risperidone

Catalogue Number: Lot Number:	LGCFOR0491.00 1719	Long-term Storage:	2 to 8 °C, dark
Molecular Formula: Molecular Weight: CAS Number:	C ₂₃ H ₂₇ FN ₄ O ₂ 410.48 [106266-06-2]	Appearance: Melting Point: Assay 'as is':	white solid 171 °C 99.7 %
	N		

Date of shipment: 2016-May-20

This certificate is valid for two years from the date of shipment provided the substance is stored under the recommended conditions.

Release Date: 2010-03-05

LGC GmbH

Dr. Sabine Schröder Product Release





LGC GmbH, Im Biotechnologiepark, TGZ II, D-14943 Luckenwalde, Germany

5 pages



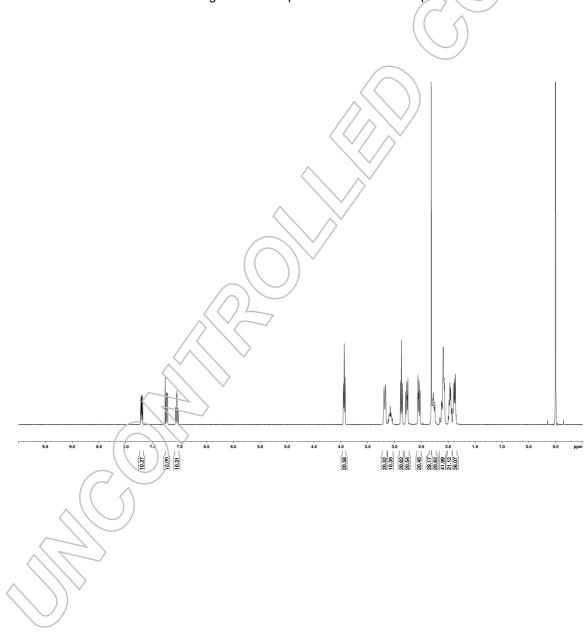
I. Identity

The identity of the reference substance was established by following analyses.

Ia. ¹H-NMR Spectrum

Conditions: 400 MHz, CDCl₃

The structure is confirmed with the signals of the spectrum and their interpretation.



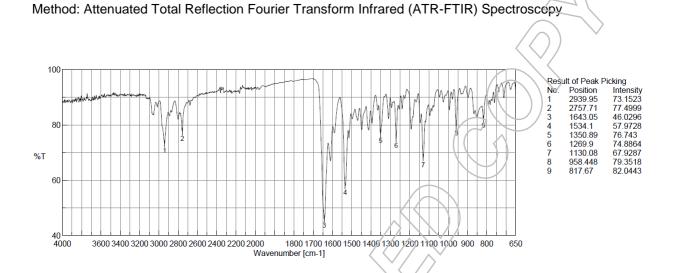


LGCFOR0491.00 Lot Number 1719

LGC GmbH, Im Biotechnologiepark, TGZ II, D-14943 Luckenwalde, Germany



Ib. IR Spectrum



The signals of the IR spectrum and their interpretation are consistent with the structural formula.

II. Purity

The purity of the reference substance was analysed by high performance liquid chromatography (HPLC).

HPLC Conditions:

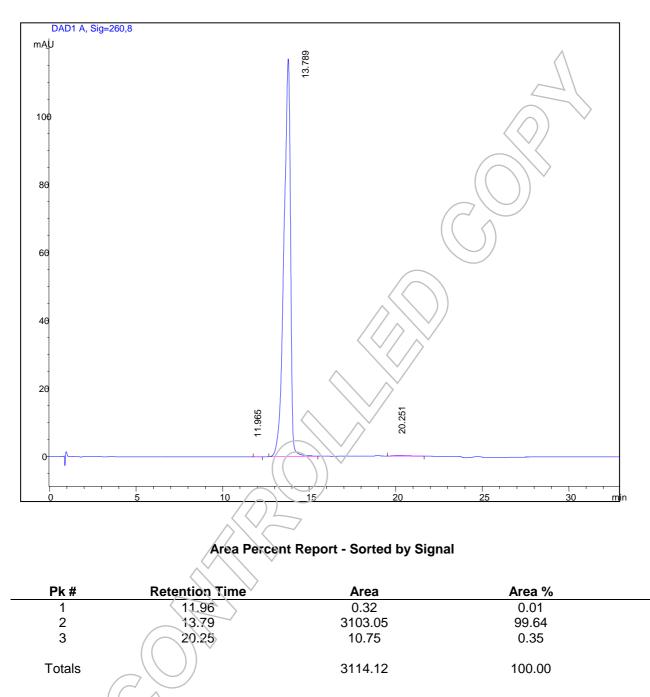
Column:	Conditions:				Detector:	Injector:
SymmetryShield RP-18	1.2 ml/min, 40 °	Ϋ́			DAD	Auto
5 µm, 150 x 3.9 mm	<u>Buffer:</u> 5 g/l Am	monium	acetate	in Water	260 nm	20 µl; 0.386 mg/ml in
	mob. Phase A: Buffer/Methanol 70/30 (v/v)				Methanol	
$\langle () \rangle$	mob. Phase B:	Buffer/M				
	0 – 2 min	A/B		100/0		
	2 – 17 min	A/B	to	0/100		
	17 – 22 min	A/B		0/100		
\land	22 – 23 min	A/B	to	100/0		
	23 – 33 min	A/B		100/0 (v/v)		



LGCFOR0491.00 Lot Number 1719

LGC GmbH, Im Biotechnologiepark, TGZ II, D-14943 Luckenwalde, Germany





For the calculation the system peaks were ignored. The content of the analyte was determined as ratio of the peak area of the analyte and the cumulative areas of the purities, added up to 100 %.

Results	
Average	99.76 %
Number of results	n=9
Standard deviation	0.20 %



LGCFOR0491.00 Lot Number 1719

LGC GmbH, Im Biotechnologiepark, TGZ II, D-14943 Luckenwalde, Germany



III. Water Content

Method: Karl Fischer titration

Results:

Average	0.03 %
Number of results	n=3
Standard deviation	0.02 %

IV. Residual Solvents

Method: ¹H-NMR

No significant amounts of residual solvents were detected (< 0.05 %).

% %

%

(not detected)

V. Final Result

0.24
0.03
n. d.
99.73

The assay is assessed to be 99.7 % 'as is'

The assay 'as is' is equivalent to the assay based on the not anhydrous and not dried substance respectively.

¹ The calculation of the 100 % method follows the formula:

Assay (%) = (100 % - KF - RES)

Purity HPLC (%) 100 %

Water (KF) and Residual solvents (RES) are considered as absolute contributions, HPLC purity is considered as relative contribution.

LGCFOR0491.00 Lot Number 1719

LGC GmbH, Im Biotechnologiepark, TGZ II, D-14943 Luckenwalde, Germany

Excellence through measurement