

Specifications and Certificate of Analysis

Lipomed Document QC-CA-947L1
Version: 002-23.Apr.2009

Supersedes: 001-22.Feb.2007

Product name: **1 ml Desmethyldiazepam-D₅ (Nordazepam-D₅) solution**
(1 mg /1 ml methanol)
7-Chloro-5-pentadeuterophenyl-1,3-dihydro-2H-1,4-benzodiazepin-2-one

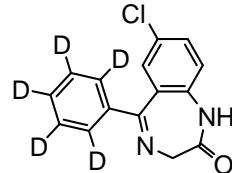
Lot Nr: 947.1B3.1L1 Release date: 30.09.2010
Art. Nr.: DIA-947-1LM Retest date: September 2012

Bulk Product Information: 947.1B3.1

Chemical formula: C₁₅H₆D₅CIN₂O

Molwt: 275.74

CAS Registry Nr: 65891-80-7



TEST	SPECIFICATIONS	RESULTS
1. Appearance	clear colorless solution	conforms
2. Identity	HPLC R_t corresponds to R_t of reference standard (± 0.5 min)	R_t standard = 9.8 min R_t test = 10.0 min
3. Purity	HPLC > 98.5 %	99.505 ± 0.005 % ^a
4. Concentration of calibrated ampoule	1.000 ± 0.050 mg/ml	0.959 ± 0.009 mg/ml ^a (mean value)
5. Solvent purity (GC)	methanol > 99.9 %	> 99.9 %

a : The purity and the concentration of the ampoules are calculated from the distribution of 6 HPLC analyses (duplicated analysis of 3 ampoules) compared with 2 independent, freshly-prepared reference solutions, with a 95% level of confidence. The free base content is already corrected from the salt form. the purity and residual water.

FOR ANALYTICAL PURPOSES ONLY: NOT FOR HUMAN OR ANIMAL USE!

Storage conditions: For maximum stability store air-tight at 2 - 8 °C in a dark location.

Note: To ensure the accuracy of stock solutions, we advise laboratories to measure precise volume of standard solution from ampoules before diluting to the desired volume.

Lipomed disclaims any liability with respect to mistakes due to inadvertence (e.g. slips of the pen) readily identifiable for an expert or a practitioner.

QC - Officer: Deputy: Dr. L. Prévot

Date sign: Arlesheim,

Trevoitz

September 30, 2010

SWITZERLAND: LIPOMED AG, FABRIKMATTENWEG 4, CH-4144 ARLESHEIM · ☎ +41 61 702 02 00 · FAX +41 61 702 02 20
GERMANY: LIPOMED GmbH, HEGENHEIMER STRASSE 2, D-79576 WEIL AM RHEIN ☎ +49 7621 1693 473 FAX +49 7621 1693 474
USA: LIPOMED INC., ONE BROADWAY, CAMBRIDGE, MA 02142 · ☎ (617) 577 7222 · FAX (617) 577 1776
INTERNET: <http://www.liomed.com> e-mail: liomed@liomed.com

Standard Solution Calibration:

Bulk Reference Solutions ^b	Prepared concentration in mg/ml	Ampoules	Analyzed concentration in mg/ml ^c
Reference 1	1.011 mg/ml	First sample	0.953 mg/ml
Reference 2	0.999 mg/ml	Second sample	0.963 mg/ml
		Third sample	0.961 mg/ml

b: Gravimetric preparation of each bulk reference solution is ensured by using balances calibrated with ilac-MRA traceable weights. The bulk reference solutions and the ampoules are prepared from the same lot.

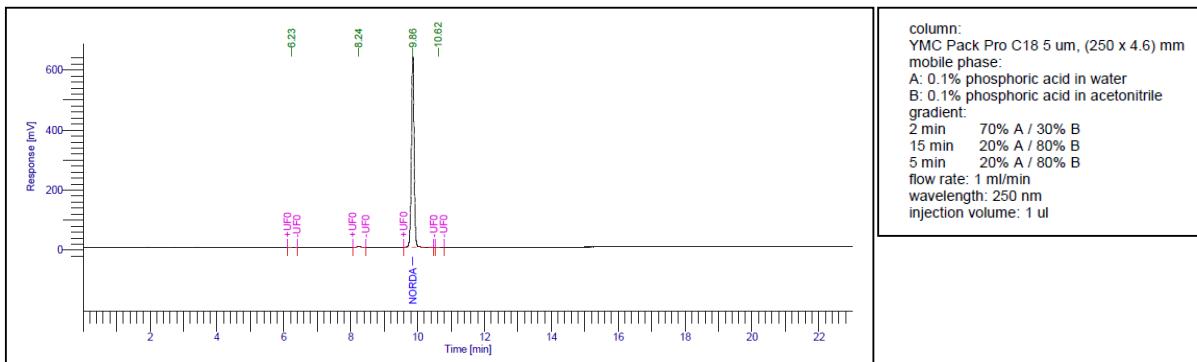
c: Homogeneity of the lot is confirmed by a duplicate analysis of 3 ampoules. These samples are representative of the batch from which they are taken.

Lot to Lot Consistency:

Standard solution	Lot Number	Concentration
Actual Lot	947.1B3.1L1	0.959 ± 0.009 mg/ml
Previous Lot	947.1B1.1L3	0.963 ± 0.008 mg/ml

HPLC Chromatogram:

Analytical conditions:



Peak #	Component Name	Time [min]	Area [uV*sec]	Area [%]
1		6.23	624.35	0.017
2		8.24	16180.86	0.449
3	Nordazepam-D5	9.86	3585499.62	99.508
4		10.62	932.53	0.026