National Institute
for Public Health and
the Environment

Datasheet Isoxsuprine-D_5

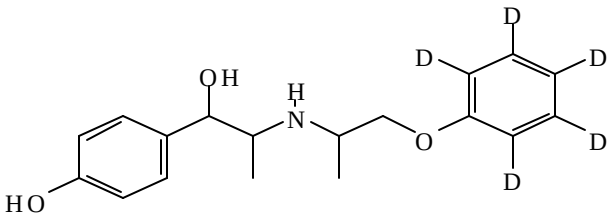
Reference number : EU/CRL: 62

Date of preparation : 1999.06.11

date : 17 January, 2003

source : Rephartox Maarssen

“Bank of Reference Standards”



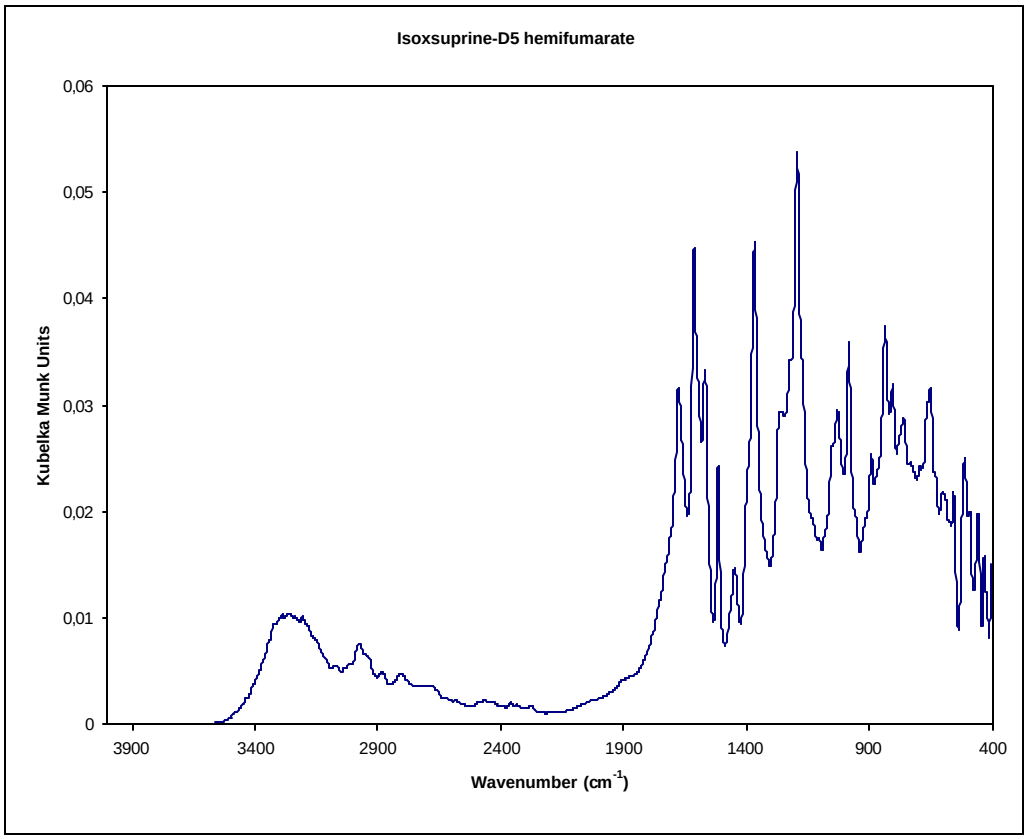
Name	: 4-[hydroxy-2-(1-methyl-2-pentadeutero phenoxy-ethylamino)–propyl]-phenol
Synonym	: Isoxsuprine-D_5
Molecular formula	: $C_{18}H_{18}D_5NO_3$
Cas #	: not available
Molecular weight	: 306.42 (hemifumarate: 364.46)
Indication of purity	: > 95 %
Last update	: 2000.07.25

Methods used for characterization

I	**IR spectroscopy**
II	**UV spectroscopy**
III	**Mass spectrometry**
IV	**^{1}H-NMR spectrometry**
V	**Homogeneity and stability obtained with GC-MS**

I IR spectroscopy

Instrument: Bruker IFS-55 FTIR; detector DTGS
Sampling technique: DRIFT



II UV spectroscopy

Instrument: Cary 3 UV-Visible Spectrophotometer
Concentration Isoxsuprine-D_5 10 mg/l dissolved in ethanol

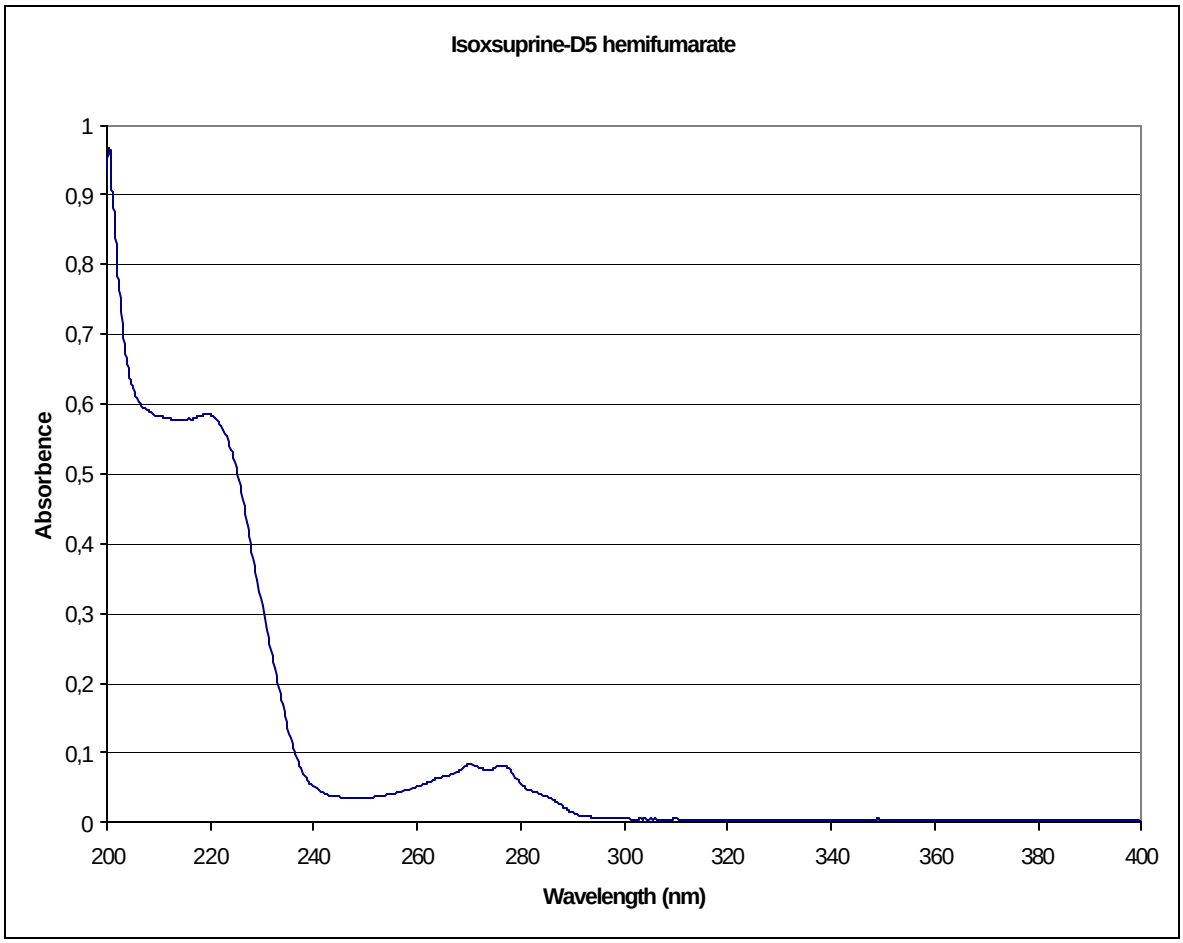


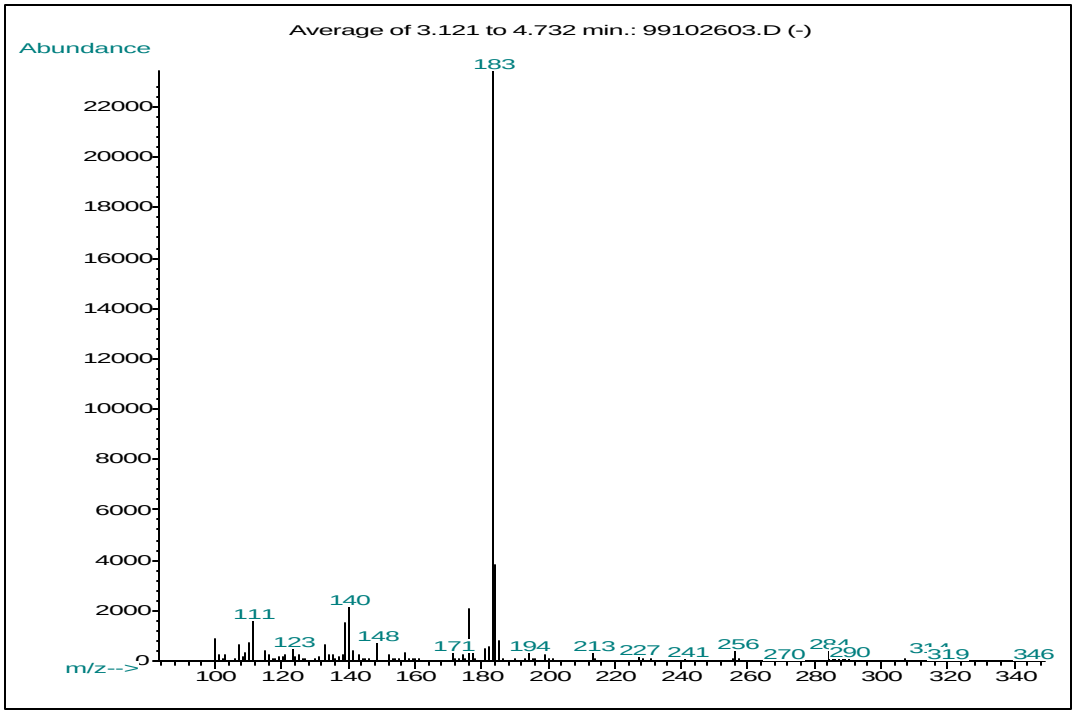
Table 1: The UV spectrum of Isoxsuprine-D_5

Peak no.	Wavelength (nm)	Absorbance
1	220.0	0.58576
2	270.0	0.08335
3	276.5	0.08211

III Mass spectrometry

Instrument: Hewlett Packard 5989 A MS

MS spectrum, DIP = direct inlet probe

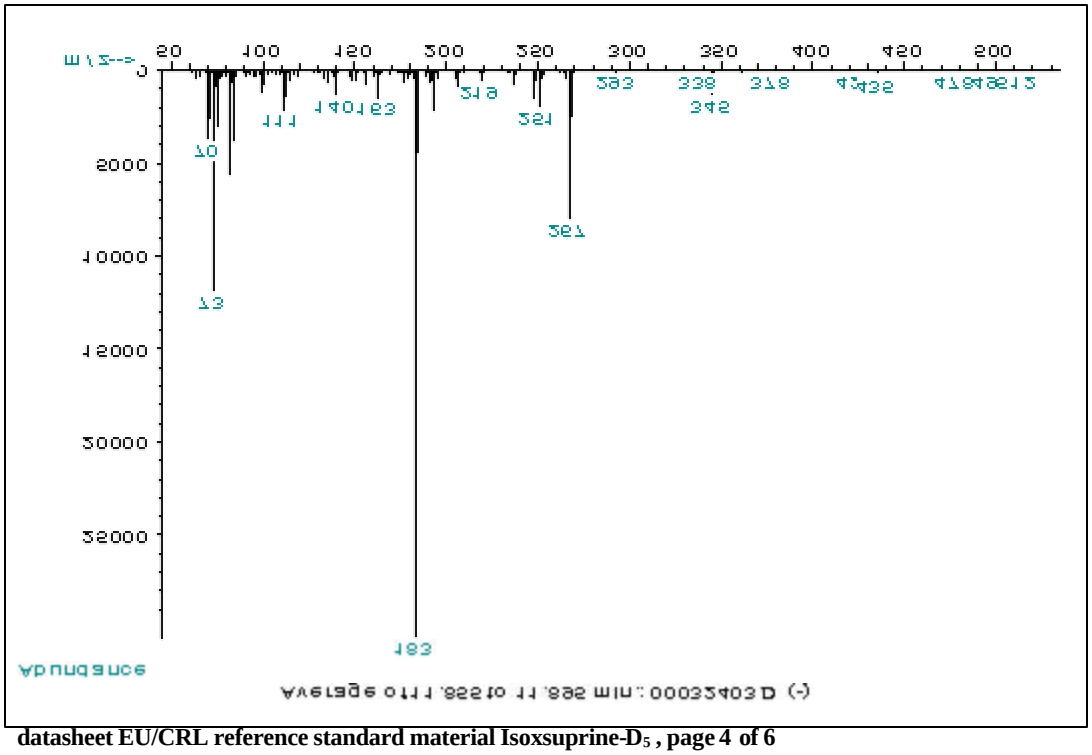


Instrument: Hewlett Packard 6890 Series MSD

GC-MS spectrum, Full Scan (EI)

Spectrum first GC peak

Mass spectrometry after TMS-derivatisation

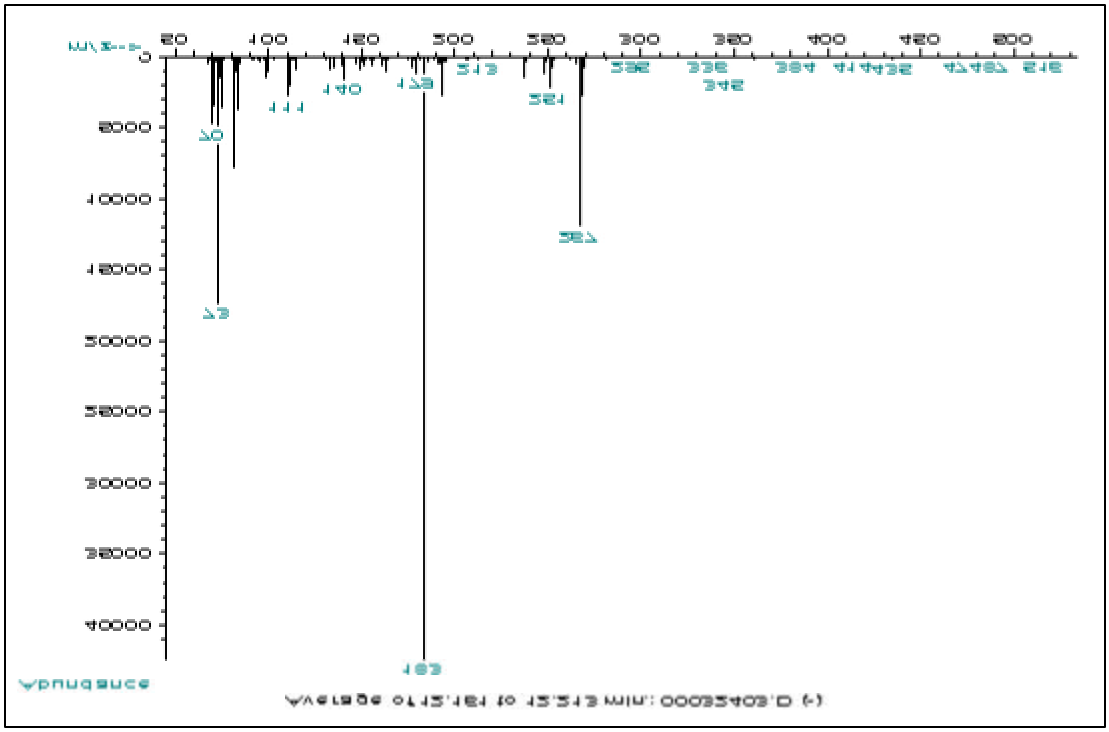


Instrument: Hewlett Packard 6890 Series MSD

GC-MS spectrum, Full Scan (EI)

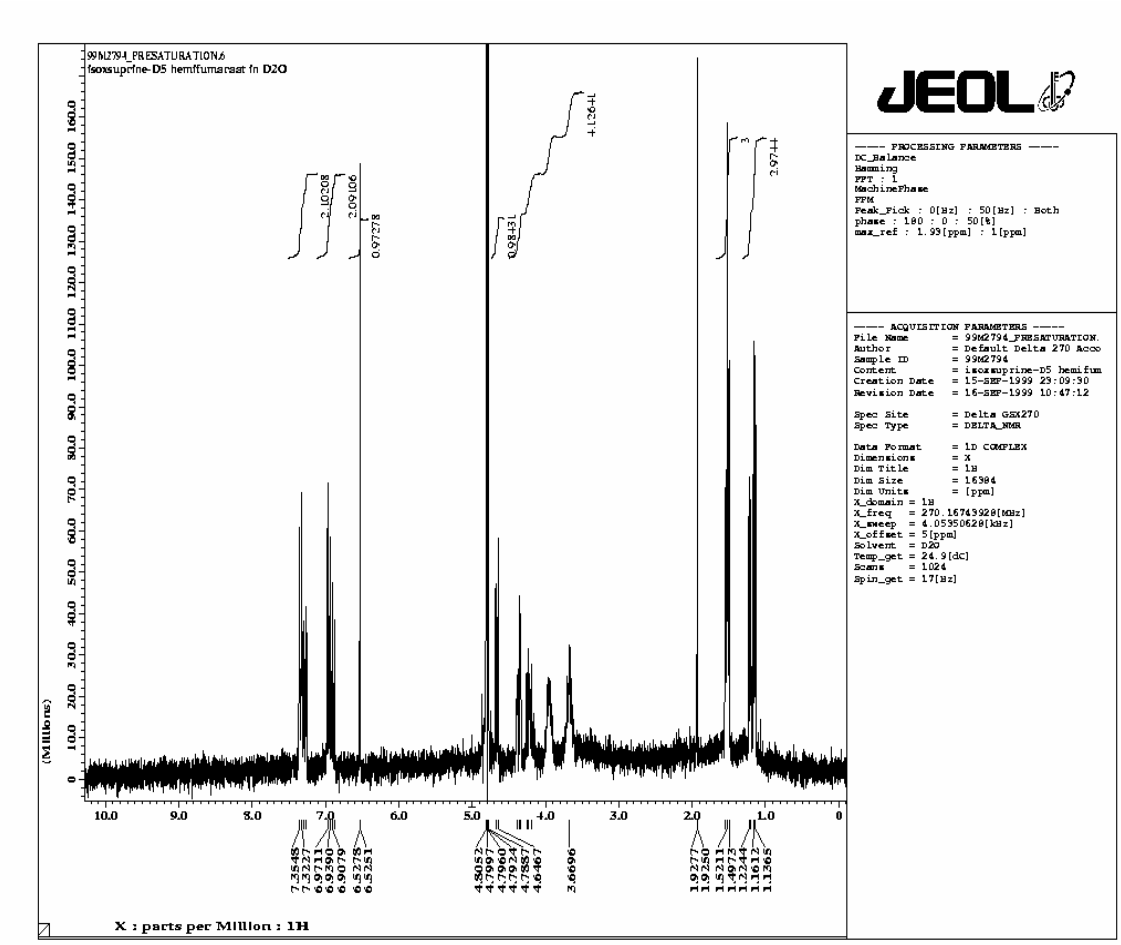
Spectrum second GC peak

Mass spectrometry after TMS-derivatisation



IV ^{1}H-NMR spectrometry

Instrument: JEOL Delta GSX270
Solvent: D_2O



V Homogeneity and stability obtained with GC-MS

Temp.	t = 0 months Homogeneity (n = 10) µg (m ± RSD)/ ampoules	t = 1 month (n = 2) µg (m ± RSD)/ ampoules

4 ºC	(101 ± 8)	**-**
23 ºC		(102 ± 4)
37 ºC		(99 ± 8)