National Institute
for Public Health and
the Environment

Datasheet Mabuterol-D_9

Reference number : EU/CRL: 45

Date of preparation: 197.05.16

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source : Rephartox Maarssen

"Bank of Reference Standards"

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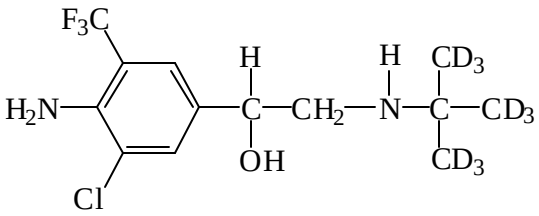


MABUTEROL-D9

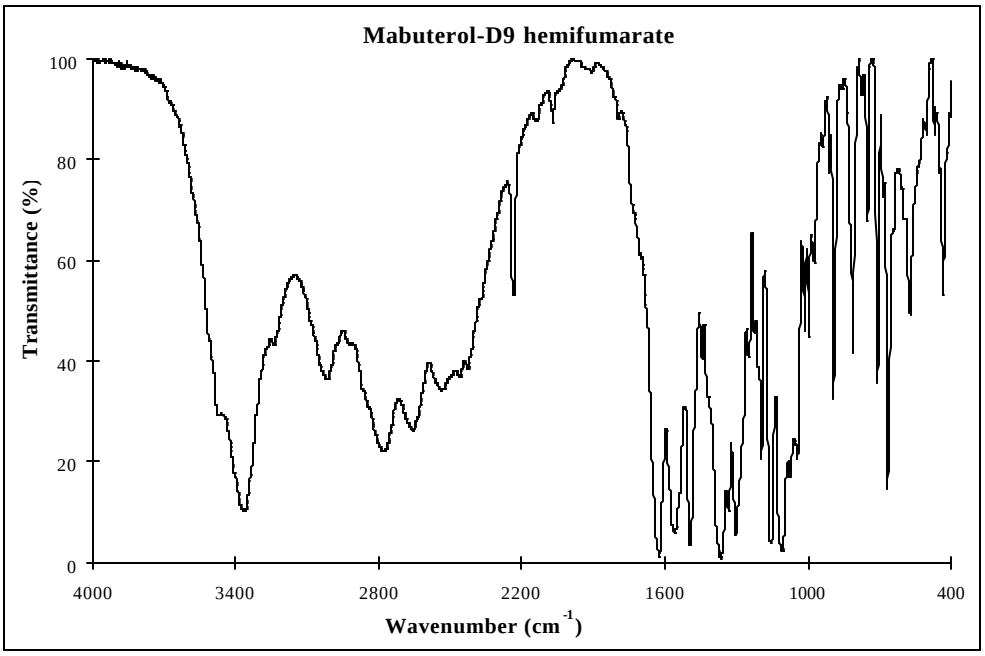
Name	:	4-amino-3-chloro-α-[[(1,1-dimethylethyl)amino]methyl] -5-(trifluoromethyl)benzenemethanol-D_9
Synonym	:	mabuterol-D_9
Molecular formula	:	$C_{13}H_9ClD_9F_3N_2O$ (84.6%)
Cas #	:	not available
Moleculair weight	:	319.80 (hemifumarate: 377.84)
Indication of purity	:	>95%
Last update	:	1998.01.06

Methods used for characterization

I	**IR spectroscopy**
II	**UV spectroscopy**
III	**Mass spectrometry**
IV	**Mass spectrometry after TMS-derivatisation**

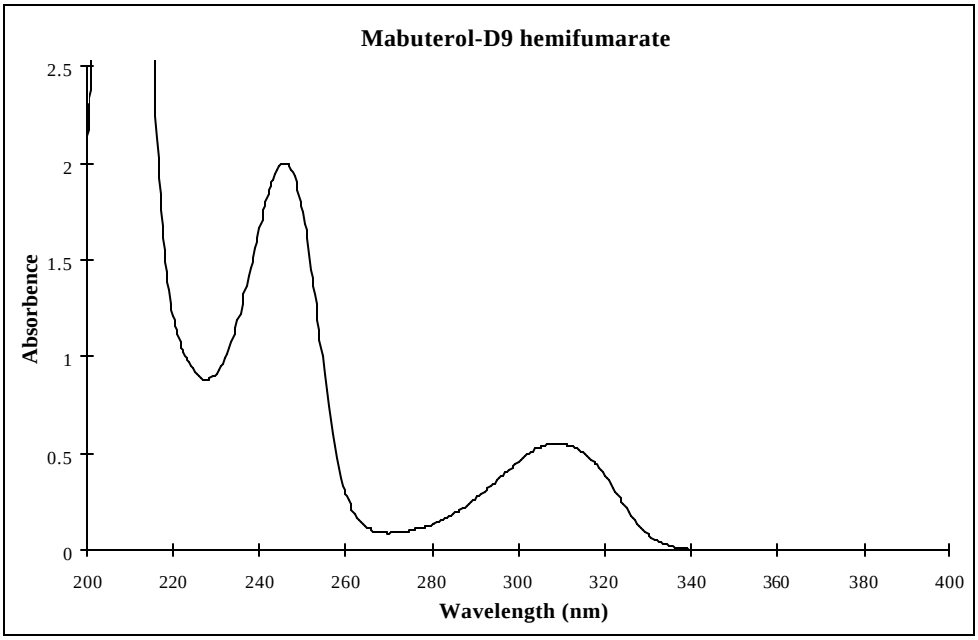
I IR SPECTROSCOPY

Instrument: Bruker IFS-55 FTIR; detector DTGS
Sampling technique: KBr-tablet.



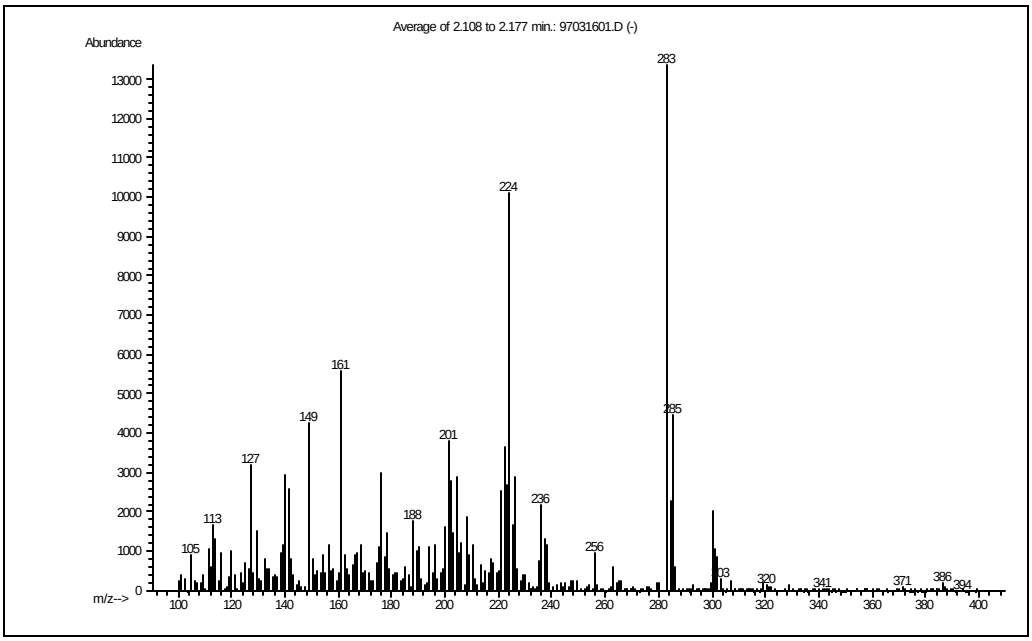
II UV SPECTROSCOPY

Instrument: Cary 3 UV-Visible Spectrofotometer
Concentration Mabuterol-D_9 hemifumarate=0.132 mM; solvent methanol
$\varepsilon_{246,0\ nm}$=15120
$\varepsilon_{308,5\ nm}$=4180



III MASS-SPECTROMETRY

Instrument: Hewlett Packard 5989 A MS
GC-MS spectrum, DIP = direct inlet probe



IV MASS SPECTROMETRY AFTER TMS-DERIVATISATION

Instrument: Hewlett Packard 5970 MSD
MS spectrum, Full Scan