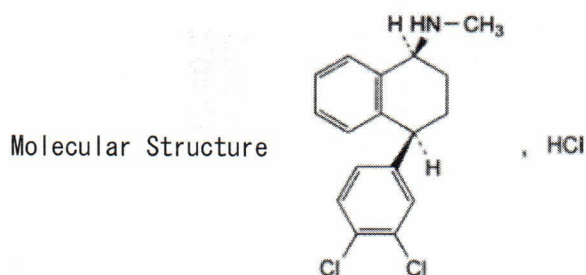


Batch no DK70-2410221
Mf date Oct 22 2024
Expiry Oct 21 2026



Molecular Formula $C_{17}H_{18}Cl_2N$
Molecular Weight 342.7
CAS Registry Number 79559-97-0

Dec 06 2024

Tests	Specifications	Results	
Appearance	White powder or crystalline powder	White crystalline powder	
Identification	HPLC, UV, IR, Reaction of chlorides	Positive	
Specific optical rotation	+36 ~ +43°	+40.6°	
Appearance of solution	Clear; not more intensely coloured than Y ₂ or GY ₂	Conforms	
Related substances	Impurity A	0.05%	
	Impurity B	< 0.02%	
	Impurity C + D	0.02%	
	Impurity F	< 0.02%	
	Any other detectable impurity	0.05% (RRT:0.95) 0.05% (RRT:1.2) 0.05% (RRT:1.29)	
	Total impurities	≤ 1.5%	0.28%
	Impurity E	≤ 0.2%	< 0.02%
Isomers	≤ 1.0%	0.04%	
Loss on drying	≤ 0.5%	0.06%	
Residue on ignition	≤ 0.1%	0.03%	
Heavy metals	≤ 0.001%	< 0.001%	
Residual solvents (GC)	Methanol	≤ 0.3%	< 0.003%
	Ethanol	≤ 0.5%	0.0604%
	n-Butanol	≤ 0.5%	< 0.005%
	Tetrahydrofuran	≤ 0.072%	< 0.0005%
	Ethyl acetate	≤ 0.5%	< 0.0005%
	Toluene	≤ 0.089%	< 0.0001%
	O-Dichlorobenzene	≤ 0.036%	< 0.001%
	N-Methyl formamide	≤ 0.088%	< 0.005%
	Assay (odb)	≥ 98.5% of C ₁₇ H ₁₇ Cl ₂ N·HCl	100.1%

Packaging & storage	Protected from light, in well closed container
Conclusion	Material complies with CP2020