



SWAPNROOP DRUGS & PHARMACEUTICALS

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CERTIFICATE OF ANALYSIS

Product Name	VERAPAMIL HYDROCHLORIDE - USP	CAS No:	152-11-4
Batch No.	2605001	Manufactured by	-
Date of Mfg.	MAY-2026	Date of Analysis	20/05/2026
Batch Quantity	-	Retest Date	APR-2031

Sr No	Test	Acceptance Criteria	Results
1	Description	White or almost white crystalline powder.	White crystalline powder
2	Solubility	Soluble in water; Freely soluble in methanol, sparingly soluble in ethanol (96%)	Complies
3	Identification by - IR	The IR spectrum of the substance to be examined should be concordant with the spectrum of Verapamil hydrochloride working standard.	Complies
4	Identification by - HPLC	The retention time of the major peak for verapamil in the Sample solution corresponds to that of Standard solution B, as obtained in the test for Organic Impurities	Complies
5	Identification by - Test of chlorides	It gives reaction of chlorides.	Complies
6	Loss on drying (% w/w)	Not more than 0.5	0.24
7	Residue on ignition (% w/w)	Not more than 0.1	0.06
8	pH (1.0 g in 20mL of water)	4.5 to 6.5	4.73
9	Organic impurities by HPLC (% w/w) Unspecified impurities	Not more than 0.3	0.24
10	Organic impurities by HPLC (% w/w) Total impurities	Not more than 0.5	0.34
11	Assay by HPLC (% w/w on dried basis)	Not less than 98.0 and not more than 102.0	98.9
12	Residual solvents by HS- GC (ppm) Methanol	Not more than 3000	Not Detected
13	Residual solvents by HS- GC (ppm) Acetone	Not more than 5000	Not Detected
14	Residual solvents by HS- GC (ppm) Isopropyl alcohol	Not more than 5000	1186
15	Residual solvents by HS- GC (ppm) Methylene chloride	Not more than 600	Not Detected

Sr No	Test	Acceptance Criteria	Results
16	Residual solvents by HS- GC (ppm) Toluene	Not more than 890	Not Detected

Storage: Store in air tight container below room Temperature

Conclusion: Product Complies as per above Specifications

Prepared By  Sonali Nirmal Date: 23/05/2026	Checked by  Dadarao Kakde Date: 23/05/2026	Approved By  Nayna Nehete Date: 23/05/2026 
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