

CERTIFICATE OF ANALYSIS

Product Name	ADRENALINE BITARTRATE 98% AR		
CAS No.	51-42-3	Code No.	00078
Batch No.	CS07251441	Date of Analysis	23/07/2025
Mfg. Date	July-2025	Mol.Weight (g/mol)	333.30
Expiry Date	June-2030	Mol. Formula	C13H19NO9

Sr.	TESTS	SPECIFICATIONS	RESULTS
1	Appearance	A white or greyish-white, crystalline powder; odourless. It darkens on exposure to air and light, decomposition being faster in the presence of moisture And at higher temperature.	A white crystalline powder; Odourless. It darkens on exposure to air and light, decomposition being faster in the presence if moisture and at higher temperature. A white or greyish-white, crystalline powder; odourless. It darkens on
2	Assay (on anhydrous basis)	98.0-101.0%	99.92%
3	Solubility	Freely soluble in water, slightly soluble in ethanol(95%), practically insoluble in chloroform and in	Complies
4	Appearance of solution	To comply IP test	Complies
4	Identification A (IR spectrum)	To confirm the structure	Conforms
5	Identification 'B'	Absorption maxima at 279 nm, about 0.4 absorbance	0.423 absorbance
6	Identification 'C'	It gives reaction of tartrate	Complies
7	Related substance (by HPLC)	-	-
8	Impurity A	Max 0.3%	BDL
9	Impurity B, C	Max 0.2% each	Not detected
10	Total unspecified impurities	Max 0.1% each	0.01%
11	Total impurities	Max 0.6%	0.03%
12	Phenones (by UV)	Max 0.1 absorbance at 310 nm	0.0094 absorbance
13	Loss on drying	Max 0.5%	0.05%
14	Sulphated ash	Max 0.1%	0.02%
15	pH (1% w/v solution)	2.8 - 4.0	3.54
16	Specific optical rotation ([α] _D ²⁰)	-50.0° to -54.0°	-50.50°

Remark: This product complies as per the specifications of Chemnovo.

Chemnovo Synthesis Pvt. Ltd.

CSPL/QC/F/04

This is an electronically generated certificate and is valid without a signature.

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