

Reference

: EP

Venkata Narayana Active Ingredients Private Limited

CERTIFICATE OF ANALYSIS

: Tetracaine Hydrochloride CAS No. : [136-47-0] **Product** : TH0020118 Date of Mfg : January-2018 Batch No. **Retest Date** : December- 2022

Stora	ge condition: In an air tight cont	tainer, protected from light.	
S.No	TEST	SPECIFICATION	RESULT
1.0	Appearance	White or almost white, slightly hygroscopic, crystalline powder	White, slightly hygroscopic, crystalline powder
2.0	Solubility	Freely soluble in water, soluble in ethanol (96%)	Complies
3.0	Melting range (°C)	It melts at about 148	148.4 - 149.5
4.0	Identification by		
4.1	IR	The IR spectrum of the test sample should be concordant with the spectrum obtained from working standard	Complies
4.2	Chemical test	Should respond to the test	Complies
4.3	Reaction of chlorides	Should respond to the test for chlorides	Complies
5.0	Appearance of solution	Solution should be clear and colourless	Complies
6.0	рН	Between 4.5 and 6.5	5.27
7.0	Related substances by HPLC (in %)		
7.1	Impurity-A	Not more than 0.05	Not detected
7.2	Impurity-B	Not more than 0.1	Not detected
7.3	Impurity-C	Not more than 0.1	Not detected
7.4	Maximum unspecified impurities	Not more than 0.10	Not detected
7.5	Total impurities	Not more than 0.5	Not detected
8.0	Loss on drying (% w/w)	Not more than 1.0	0.50
9.0	Sulphated ash (% w/w)	Not more than 0.1	0.07
10.0	Assay by Potentiometry (on dried basis) (% w/w)	Not less than 99.0 and not more than 101.0	99.3

Prepared By:

10/09/18 Date:

Checked By:

Date:

Approved By:

Date:

Regd. Office: Venkata Narayana Towers, 3rd Floor, New No.60, Old No.35, Venkatanarayana Road, T.Nagar, Chennai - 600017. Tamil Nadu. Phone: +91-44-42984141.

Factory: Sy. No.69, Chandrapadiya Village, Vinjamur Mandal, S.P.S.R. Nellore District - 524 228. Andhra Pradesh. Phone: +91-8627-300100

Web: www.vnai.in / CIN: U24231TN2005PTC057504



Venkata Narayana Active Ingredients Private Limited

(Formerly Nutra Specialities Private Limited)

CERTIFICATE OF ANALYSIS

CAS No. : [136-47-0] **Product** : Tetracaine Hydrochloride Date of Mfg : January-2018 Batch No. : TH0020118 Retest Date : December- 2022 Reference : EP

S.No	TEST	SPECIFICATION	RESULT
11.0	Residual solvents by GC (in ppm)		
11.1	Methanol	Not more than 3000	Below LOD
11.2	Acetone	Not more than 5000	359
11.3	Hexanes	Not more than 290	Below LOD
11.4	Toluene	Not more than 890	Not detected

Remarks: The product **confirms** as per the above specification.

Prepared By:

Date:

10/09/18

Checked By :

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