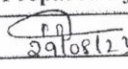
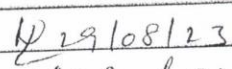
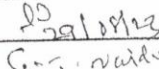

 VASUDHA PHARMA CHEM. LIMITED	<b>VASUDHA PHARMA CHEM LIMITED</b> 78/A, Vengalrao Nagar, Hyderabad-500 038, Telangana State, India Phone: 91-40-2381 2046, 2371 1717, FAX: 91-40-2381 1576 E-mail: vasudha@vasudhapharma.com, Website: www.vasudhapharma.com	Page 1 of 2
	<b>CERTIFICATE OF ANALYSIS</b>	

Name of the product	:	AMITRIPTYLINE HYDROCHLORIDE Ph.Eur.		
Batch Number	:	CAMPT/2305066	Analyzed on	: 19/06/2023
Manufacturing Date	:	MAY 2023	Retest Date	: APR 2028
Quantity	:	271.30 Kg	AR No.	: AMPT/23107

S.No.	TEST	RESULT	SPECIFICATION
1.0	CHARACTERS		
1.1	Appearance	White crystalline powder	White or almost white powder or colourless crystals.
1.2	Solubility	Complies	Freely soluble in water, in ethanol (96 percent) and in methylene chloride.
2.0	IDENTIFICATION		
2.1	Infrared spectrum (KBr disc)	Complies	The IR spectrum of the sample should be concordant with that of Reference / working standard.
2.2	Chlorides test	Complies	The solution should give reaction (a) of chlorides.
3.0	TESTS		
3.1	Appearance of solution	Complies	The solution is clear and not more intensely coloured than reference solution B <sub>7</sub> .
3.2	Acidity (or) Alkalinity	Complies	The solution should be yellow with alkali and red with acid.
3.3	Related substances by HPLC (%)		
	Impurity-A	BDL (BDL Limit : 0.0083)	Not more than 0.05
	Impurity-B	0.03	Not more than 0.1
	Single maximum unspecified impurity	0.01	Not more than 0.10
	Total impurities	0.04	Not more than 0.3

	Prepared By QC	Checked By QC	Approved By QC
Signature & date	 29/08/23	 29/08/23	 29/08/23
Name	P. Narayana Rao	N. S. Raghav	G. S. Naidu
Designation	Executive	Jr. Manager	Sr. Manager

**Works:** M/s Vasudha Pharma Chem Limited, Unit-III, Plot No:23&24, Jawaharlal Nehru Pharma City, Thanam (V),  
Parawada (M), Anakapalli District- 531019, Andhra Pradesh, India. Ph: 08924-236227, 236228  
CQA/002/F05/01 EFFECTIVE DATE: 01/01/2021

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	<b>CERTIFICATE OF ANALYSIS</b>			
Name of the product	: AMITRIPTYLINE HYDROCHLORIDE Ph.Eur.			
Batch Number	: CAMPT/2305066	Analyzed on	: 19/06/2023	
Manufacturing Date	: MAY 2023	Retest Date	: APR 2028	
Quantity	: 271.30 Kg	AR No.	: AMPT/23107	
<b>S. No.</b>	<b>TEST</b>	<b>RESULT</b>	<b>SPECIFICATION</b>	
3.4	Loss on drying (% w/w)	0.23	Not more than 0.5	
3.5	Sulfated ash (% w/w)	0.06	Not more than 0.1	
3.6	Assay by HPLC on dried basis (% w/w)	100.4	Not less than 99.0 and Not more than 101.0	
4.0	Additional tests			
4.1	Residual solvents (By GC with HSS, ppm)			
	Methanol	BDL (BDL Limit : 12)	Not more than 500	
	Acetone	11	Not more than 500	
	Tetrahydrofuran	BDL (BDL Limit : 4)	Not more than 500	
	Toluene	90	Not more than 500	

"BQL" indicates Below Quantification Limit.

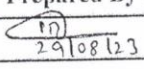
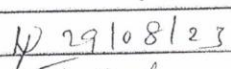
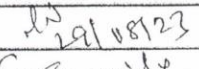
"BDL" indicates Below Detection Limit.

**Remarks:** The material complies as per the **Ph.Eur** 10 Specification.

**Transportation:** Material transit in ambient condition.

**Storage:** Recommended to store the material at  $25 \pm 2^\circ\text{C}$  at your site (Excursions allowed between 15 to  $30^\circ\text{C}$ ).

**Note:** Ensure material is packed under nitrogen atmosphere and tie properly whenever opening the bag/container.

	Prepared By QC	Checked By QC	Approved By QC
Signature & date	 29/08/23	 29/08/23	 29/08/23
Name	P. Narayana Rao	N. S. Raghav	Sr. Manager
Designation	QC Chemist	Jr. Manager	Sr. Manager

**Works:** M/s Vasudha Pharma Chem Limited, Unit-III, Plot No:23&24, Jawaharlal Nehru Pharma City, Thanam (V), Parawada (M), Anakapalli District- 531019, Andhra Pradesh, India. Ph: 08924-236227, 236228

CQA/002/F05/01

EFFECTIVE DATE: 01/01/2021