Art.-Nr.: 5059 Charge: 23003608

VEN PETROCHEM & PHARMA (INDIA) PVT LTD.



PLOT NOS 2903, 05, 07, 09, 10 & 2704 TO 2708, G.I.D.C. INDUSTRIAL ESTATE, SARIGAM 396155, DISTRICT: VALSAD, GUJARAT STATE - INDIA. □ TEL: +91 - 260 - 2781185 / 2780285 □ FAX: +91 - 260 - 2780520

CERTIFICATE OF ANALYSIS

ISSUED FOR

M/S. F. & A. PHARMA-Handels-GmbH, GERMANY.

RE: INVOICE NO.

: FOR APPROVAL

DATED : 03/02/2023

QUANTITY SUPPLIED

400 KG

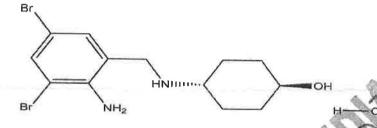
PURCHASE ORDER NO: 047 / 2023

DATED : 03 / 02 / 2023

PRODUCT NAME: AMBROXOL HYDROCHLORIDE

BATCH NO : AXL 076320230





MOLECULAR FORMULAE

C13H18Br2N2OHCI

414.6

CAS NO

MERCK INDEX NO 23828-92-4

401 EINECS NO

245-899-2

CHEMICAL NAME

trans-4-(2-amino-3,5-dibromobenzylamino)eyclohexanol hydrochloride

DATE OF MANUFACTURE

04/01/2023

DATE OF EXPIRY

03 / 01 / 2028

RELEASE DATE

29 / 01 / 2023

BATCH QUANTITY

500 KG

ANALYSIS REPORT NO

582023509E

MANUFACTURING L/C NO

G / 25 / 836

MONOGRAPH : BRITISH PHARMACOPOEIA 2022 / EUROPEAN PHARMACOPOEIA 11.0

PARAMETERS		UNIT	LIMITS	RESULTS
CHARACTERISTICS MELTING POINT			A white or yellowish crystalline powder	A white crystalline powder
		°C	234.0 to 240.0	235.3 to 236.2
SOLUBILITY	Methanol	parts	10 to 30	15
	Water	parts	30 to 100	70
	Methylene Chloride	parts	more than 10000	Insoluble
	Test A: UV Absorption Ratio	-	3.2 to 3.4	3.3
	Test B : IR Test	•	Complies with standard	Conforms
	Test C : Thin Layer Chromatography	(=)	Complies with standard	Conforms
	Test D : Chloride Test	, •)	Complies with chloride test	Conforms



VEN PETROCHEM & PHARMA (INDIA) PVT LTD.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: AMBROXOL HYDROCHLORIDE BATCH NO. AXI 0763202301

PARAMETERS			UNIT	LIMITS	RESULTS
	Appearance of solution		-	Complies with test	Conforms
TESTS	рН		-	4.5 to 6.0	5.0
	Foreign Particles *		/ gm	Not Detected	Not Detected
	Loss on Drying		%	NMT 0.5	0.1
	Sulphated Ash		%	NMT 0.1	0.01
	Particle Size (< 50 microns)		%	90	Conforms
RELATED SUBSTANCE (BY LIQUID CHROMATOGRAPHY)	Identified Impurity	Impurity A	%	NMT 0.15	Not Detected
		Impurity B	%	NMT 0.15	0.01
		Impurity C	%	NMT 0.15	Not Detected
		Impurity D	%	NMT 0.15	Not Detected
		Impurity E	%	NMT 0.15	Not Detected
	Unknown Impurity	Impurity 1	%	NMT 0.10	0.01
		Impurity 2	%	NMT 0.10	Not Detected
	Total Impurities		%	NMT 0.30	0.01
RESIDUAL SOLVENTS ©	n-Butanol		ppm	NMT 5000	221
	Toluene		ppm	NMT 890	094
ASSAY (on dried basis, by potentiometric titration)			%	99.0 to 101.0	99.8

SUMMARY: WE CERTIFY THAT THE PRODUCT WAS TESTED ACCORDING TO THE PROCEDURES, AS PER BRITISH PHARMACOPOEIA 2022, Page No. I-135 AND AS PER EUROPEAN PHARMACOPEIA 11.0, PAGE NO. 1930, AND ALL RESULTS MEET THE SPECIFICATIONS. THE PRODUCT COMPLIES WITH THE REQUIRED QUALITY.

TESTS MARKED (©) ARE AS SPECIFIED IN CERTIFICATE OF SUITABILITY BEARING REGISTRATION NUMBER R1-CEP 2004-240-Rev 00, AS ISSUED BY EURPEAN DIRECTORATE FOR THE QUALITY OF MEDICINES

TESTS MARKED (*) ARE IN HOUSE SPECIFICATION TESTS

REMARKS : WE CERTIFY THAT AMBROXOL HYDROCHLORIDE IS FREE OF TSE (TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHIES) AND BSE (BOVINE SPONGIFORM ENCEPHALOPATHY) I.E. TSE / BSE IS ABSENT IN THE PRODUCT. WE FURTHER CERTIFY THAT RESIDUAL SOLVENTS OF CLASS 1 AS PER CPMP/ICH/283/95 GUIDELINES ARE NOT USED IN THE MANUFACTURING PROCESS NOR COULD THEY BE INTRODUCED DURING STORAGE AND HANDLING OF MATERIAL. CLASS 2 & 3 SOLVENTS WHICH ARE LIKELY TO BE PRESENT ARE WITHIN THE LIMITS SPECIFIED.

WE, AS MANUFACTURER, HEREBY CERTIFY THAT THIS BATCH HAS BEEN MANUFACTURED BY US IN FULL COMPLIANCE WITH GMP REQUIREMENTS OF THE LOCAL REGULATORY AUTHORITY. (GMP CERTIFICATE NUMBER S-GMP/21062639 VALID TILL THE 27th OF JUNE 2023, ISSUED BY THE COMMISSIONER, FOOD & DRUGS CONTROL ADMINISTRATION, AS PER GMP GUIDELINES UNDER THE REVISED SCHEDULE 'M' OF THE DRUGS & COSMETICS ACT.).

WE FURTHER CERTIFY THAT THIS BATCH HAS BEEN MANUFACTURED BY US IN COMPLIANCE WITH EU GUIDELINES ON GOOD MANUFACTURING PRACTICE FOR ACTIVE SUBSTANCES USED AS STARTING MATERIALS, AS PUBLISHED IN THE RULES GOVERNING MEDICINAL PRODUCTS IN THE EUROPEAN UNION, VOLUME 4, PART II.

WE HEREWITH CONFIRM THAT THE MANUFACTURING PROTOCOL (BATCH RECORD) AND THE ANALYSIS PROTOCOL OF THE BATCH ARE DULY SIGNED AND RELEASED BY THE RESPONSIBLE QUALIFIED PERSON.

STORAGE: STORE IN A WELL CLOSED CONTAINER, PROTECTED FROM LIGHT.

PACKING: DONE IN FIBRE DRUMS, EACH CONTAINING 25 KG NETT

