

		organics
	CERTIFICATE OF ANALYSIS	
Product Name	Ambroxol HCL - IP	
Mfg By	Paragon Organics	
Cas No.	23828-92-4	
Batch No.	PRG/AM/2506026	
Date of Mfg.	Jun-2025	
Date of Expiry	May-2030	
Batch Qty.	729.20 Kg	

Sr. No.	TEST	SPECIFICATION	RESULT
1.	Description	A white or yellowish crystalline powder	White crystalline powder
	Identification test by		
2.	a) Infrared absorption spectrophotometry	Compare the spectrum with that obtained with Ambroxol reference standard or with the reference spectrum of Ambroxol hydrochloride.	Concordant
	b) Reaction of chlorides	The aqueous layer of substance with water and ammonia gives reaction of chlorides while acidifying with nitric acid.	Complies
3.	Solubility	Sparingly soluble in water, soluble in methanol, practically insoluble methylene chloride.	Complies
4.	pH (1 % w/v Solution in water)	4.5 to 6.0	5.20
5.	Heavy Metals (Method B)	Not more than 20 ppm	Less than 20 ppm
6.	Sulphated ash	Not more than 0.10 % w/w	0.013 % w/w
7.	Loss on drying	Not more than 0.50 % w/w	0.22 % w/w
	Related substance by HPLC		
8.	a) Single max. impurity	Not more than 0.50 %	0.005 %
	b) Total impurities	Not more than 1.00 %	0.008 %

Remark:- In the opinion of undersigned the material of the standard Quality as per IP

Prepared By	Checked By	Approved By
Juls 17/106/2025	Robins 17/06/2025	17 106 12025

Format No.: F2-01, SOP/QCD/012-02



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Sr. No.		TEST	SPECIFICATION	RESULT
9.		ay by HPLC dried basis)	Not less than 99.0 % and not more than 101.0 % w/w	100.56 % w/w
10.	Add	ditional Test		
	Resi	idual Solvent by GC-HSS		
	a)	Methanol	Not more than 3000 ppm	194 ppm
10.1	b)	Isopropyl Alcohol	Not more than 5000 ppm	377 ppm
	c)	Tetrahydrofuran	Not more than 720 ppm	ND
	d)	Ethylene dichloride	Not more than 5 ppm	ND
	e)	Toluene	Not more than 890 ppm	ND

Remark:- In the opinion of undersigned the material of the standard Quality as per IP

Prepared By	Checked By	Approved By
Jus 17/06/2025	Reclumb 17/06/2025	Family 17/106/2025

Format No.: F2-01, SOP/QCD/012-02



	organics		
	CERTIFICATE OF ANALYSIS		
Product Name	Ambroxol HCL - BP/EP		
Mfg By	Paragon Organics		
CAS No.	23828-92-4		
Batch No.	PRG/AM/2505024		
Date of Mfg.	May-2025		
Date of Expiry	Apr-2030		
Batch Qty.	729.50 Kg		

Sr. No.	TEST	SPECIFICATION	RESULT
1.	Description	A white or yellowish crystalline powder	White crystalline powder
	Identification test a) UV-VIS spectrophotometry	Absorption maxima should be at 3.2 to 3.4 at 245 nm and 310 nm.	Complies
2.	b) Infrared Absorption Spectrophotometry	IR spectrum of the test sample should be concordant with that of reference standard spectrum.	Concordant
2.	c) Thin layer chromatography	Principal spot in the chromatogram obtained with the test solution is similar in position and size to the principal spot in the chromatogram obtained with the reference solution.	Complies
	d) Reaction of chloride	The filtrate gives reaction of chlorides.	Complies
3.	Solubility	Sparingly soluble in water, soluble in methanol, practically insoluble in methylene chloride.	Complies
4.	pН	4.5 to 6.0	5.23
5.	Appearance of solution	The solution is clear and not more intensely coloured than reference solution Y6.	Complies
6.	Sulphated ash	Not more than 0.10 % w/w	0.009 % w/w

Remark:- In the opinion of undersigned the material of the standard Quality as per BP/EP

Prepared By	Checked By	Approved By
July 30/05/2025	Rolling 30/05/2025	AJadon_ 30/05/2095

Format No.: F2-01, SOP/QCD/012-02

Page 1 of 2



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Mfg By	Paragon Organics		
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Date of Mfg.	May-2025		
Date of Expiry	Apr-2030		
Batch Qty.	729.50 Kg		

Sr. No.	TEST	SPECIFICATION	RESULT
7.	Loss on drying	Not more than 0.50 % w/w	0.23 % w/w
8.	Related substances by HPLC		
	a) Any other impurity	Not more than 0.10 %	0.010 %
	b) Total impurities	Not more than 0.30 %	0.018 %
9.	Assay by potentiometric titration (dried substance)	99.0 % to 101.0 % w/w	100.0 % w/w
10.	Additional Test		
	Residual Solvent by GC-HSS		
	a) Methanol	Not more than 3000 ppm	199 ppm
10.1	b) Isopropyl Alcohol	Not more than 5000 ppm	378 ppm
	c) Tetrahydrofuran	Not more than 720 ppm	ND
	d) Ethylene dichloride	Not more than 5 ppm	ND
	e) Toluene	Not more than 890 ppm	ND

Remark: - In the opinion of undersigned the material of the standard Quality as per BP/EP

Prepared By	Checked By	Approved By
Huls	Rolling	Aderdan
30/05/2025	30/05/2025	30/05/2025

Format No.: F2-01, SOP/QCD/012-02