



AMSAL CHEM PVT. LTD.
QUALITY CONTROL LABORATORY
The Drugs & Cosmetic Act 1940 & the rules thereunder
CERTIFICATE OF ANALYSIS

A-1 401, 402 & 403,
G.I.D.C. Industrial Estate,
Ankleshwar-393 002.
District : Bharuch, Gujarat, India.
CIN : U24231GJ1992PTCO18289

Format No : SOP/QC/111/FM01

Name of Product : ISONIAZID EP

Batch No : 25033/INH

Mfg. Date : 13/02/2025

Exp. Date : 12/02/2030

Sample quantity : 50 gm

CAS NO. : 54-85-3

A.R. No : AC/INH/033/2025

Batch size : 2075.0 kgs

Date of Sampling : 17/02/2025

Date of Release : 26/02/2025

Analysed as per : EP 11.3 / In House

Sr. No.	TEST	SPECIFICATION	RESULT
1.	Appearance	White or almost white, crystalline powder or colourless crystals.	Complies
2.	Solubility	Freely Soluble in water, sparingly soluble in ethanol (96%), practically insoluble in heptane.	Complies
3.	Identification	First identification: A, B Second identification: A, C	170.9°C
	A. Melting point	170°C to 174°C	170.9°C
	B. Infrared absorption spectrophotometry	Should be concordant with IR spectrum of Isoniazid WS.	Complies
	C. Melting point of Derivative	226°C to 231°C	-
4.	Appearance of solution	5% w/v solution is clear and not more intensely coloured than reference solution BY ₇	Complies
5.	pH	The pH of a 5% W/V solution is 6.0 to 8.0	7.29
6.	Impurity E by HPLC	Not more than 15 ppm.	2.70 ppm
7.	Loss on Drying	Not more than 0.5%	0.23 %
8.	Sulfated ash	Not more than 0.1%	0.03 %
9.	Assay by (Titrimetric)	99.0% to 101.0% (dried substance)	99.8 %
ADDITIONAL TEST			
10.	Related substances by HPLC (In-House Method)		
	Isonicotinic Acid	Not more than 0.05%	0.01 %
	Isonicotinamide	Not more than 0.10%	0.01 %
	Nicotinoyl Hydrazide	Not more than 0.10%	ND
	Diisonicotinoyl Hydrazine	Not more than 0.10%	0.01 %
	2-Isoniazid	Not more than 0.10%	ND
	4-Cyanopyridine	Not more than 0.10%	ND
	Benzoyl Hydrazine	Not more than 0.10%	ND
	Single Maximum Unknown Impurity.	Not more than 0.10%	ND
	Total Impurities	Not more than 0.20%	0.03 %
11.	Residual Solvents (In-House GC Method)		
	Methanol	Not more than 3000 ppm.	294 ppm
	Benzene	Not more than 2 ppm.	ND
	Pyridine	Not more than 200 ppm.	ND

Analysed by
(QC Officer)
(Sankalp Patel)

Checked by
(Asst. QC Manager)
(A.R. Rajput)

Approved by
(Asst. QA Manager)
(Anil Patel)



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Sr. No.	TEST	SPECIFICATION	RESULT
12.	Particle Size (by Sieve analysis)		
	NA	NA	NA
13.	Microbiological Analysis		
	Total viable Aerobic count		
	a) Total Bacterial count	Not more Than 1000 CFU/gm	-
	b) Total Fungal Count (Yeasts +Moulds)	Not more than 100 CFU/gm	-
	Pathogens:		
	Escherichia coli	Should be absent.	-
	Salmonella abony	Should be absent.	-
	Staphylococcus aureus	Should be absent.	-
	Pseudomonas aeruginosa	Should be absent.	-
	Candida albicans	Should be absent.	-
	Aspergillus brasiliensis	Should be absent.	-
	Clostridium sporogenes	Should be absent.	-
	Shigella boydii	Should be absent.	-
14.*	Metal impurities*		
	Molybdenum (Mo)	Not more than 150 ppm	-
	Nickel (Ni)	Not more than 2.0 ppm	-
	Chromium (Cr)	Not more than 110 ppm	-
	Vanadium (V)	Not more than 1.0 ppm	-
15.*	Acetaldehyde Content By GC	Not more than 0.1 %	-

Report:

In the opinion of the undersigned the sample referred to above complies / ~~does not comply~~ with the requirement as per EP 11.3 and the In-House specification.

* Test No.14 Metal impurities 'Skip test' and Test No.15 Acetaldehyde Content 'Skip test'.

Remark: This batch COA is reprint on 07/06/2025.

07/06/2025
Analysed by
(QC Officer)
(Sankalp Patel)

07/06/2025
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(Asst. QC Manager)
(A.R. Rajput)

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Approved by
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(Anil Patel)