Sun Pharmaceutical Industries Ltd.

Plot No. Z-15, Dahej SEZ Industrial Area.

Tal. Vagra, Dahej - 392 130, Dist. Bharuch, Gujarat, INDIA.

Mesalazine Ph. Eur.

BD0270P0DB

Phone: (02641) 280000-5 Fax: (91-02641) 280125

www.sunpharma.com

Product

Item Code

CIN: L24230GJ1993PLC019050

Certificate of Analysis



Page 1 of 3

Mfg. D	Date	1:	Oct/2018	Batch No.	:	MSNNJ18025	AR. No.	:	DFR0342
Exp. D	ate	:	Sep/2023	Batch Size	:	533.68 KGS	Release Date	:	20.10.18
Sr.	1		Test	Observa	ıtio	n/Results	Spe	cif	ication
1	Chara	acte	eristics			•			
1.1	Appe	ara	nce	Almost white	po	wder.	Almost white of pink powder or		ight Grey or light ystals.
1.2	Solub	oilit	у	Very slightly s Practically ins (96%). It disso solutions of al and in dilute h	olu olve kal	ible in Ethanol es in dilute i hydroxides	Very slightly s Practically inso (96%). It disso	olu lul lve ali	ble in water ble in Ethanol s in dilute hydroxides and
2	Identi	fic	ation			× *			
2.1	- 7 ,	,	ation- A	The maximum 231.9 nm and absorbance at 443.01	spe	ecific	nm and specific	ıld al	the maximum be at about 230 psorbance at the een 430 and 450.
2.2	Identi	fica	ation- B	Infrared absorp			Infrared absorp		
				KBr dispersion concordant with of Mesalamine	th t	he spectrum	absorption spec dispersion of sa concordant with	ımp	ole should be
	71	~		standard.			Mesalamine wo		
2.3	Identi	tica	ation- C	The principal s chromatogram the test solutio position, colou principal spot	ob n is ir a in t	tained with s similar in nd size to the he	principal spot in obtained with the similar in position to the principal	n the ne ton, spo	colour and size of in the
	Paris - C			chromatogram the reference s			chromatogram		
3	Anner	rar	nce of solution	the reference s	JIU	uon.	reference soluti	on.	
3.1	7-7-		nce of solution	Solution is clea		-	Solution should	ha	olear
3.2			nce at 440 nm	0.112 Au	41		Not more than (
3.3			nce at 650 nm	0.026 Au			Not more than (
4			Substances	The colour of s	olu		The colour of so blue or violet br	olut	tion should be
5	Relate	d S	Substances (By I	HPLC)					
			mpurities						
			E + Impurity	0.005 %			Not more than (0.05	5%
	Impuri	ity	F	BQL (<0.03%)			Not more than 0	1.19	/6
	Impuri	ity	G	0.006 %			Not more than 0		
	Impuri	ity	Н	BQL (<0.03%)			Not more than 0		

Registered Office: SPARC, Tandaija, Vadodara - 390 020. Gujarat, INDIA Tel.: (91-0265) 2350789, 6615500 Corporate Office: Sun House, Plot No. 201 B/1, Western Express Highway, Goregaon (E), Mumbai - 400 063, Maharashtra, INDIA. Tel.: (91-22) 4324 4324, Fax: (91-22) 4324 4343

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CIN: L24230GJ1993PLC019050

Certificate of Analysis



Produc	t	:	Mesalazine Pl	ı. Eur.				Π	Page 2 of 3
Item C	ode	:	BD0270P0DE	3			3		
Mfg. D	ate	:	Oct/2018	Batch No.	:	MSNNJ18025	AR. No.	:	DFR0342
Exp. D	ate	:	Sep/2023	Batch Size	:	533.68 KGS	Release Date	:	20.10.18
Sr.			Test	Observ	atio	n/Results	Spe	cif	ication
	Impu	rity	J	BQL (<0.039	6)	,	Not more than		
	Impu	rity	L	BDL		_	Not more than	0.0	05%
	Impu	rity	M	BDL		<u> </u>	Not more than	0.0	05%
	Impu	rity	0	BQL (<0.039	<u>6)</u>		Not more than	0.	1%
	Impu	rity	P	BQL (<0.03%	6)	-	Not more than	0.	1%
	Impu	rity	R	BDL	1800		Not more than	0.0)5%
	UnK	nov	n Impurities						
	Unsp	ecif	ied impurities	0.03 %			Not more than	0.0)5 %
	Total	im	purities	0.15 %			Not more than	0.5	5%
	(knov	vn ·	+ Unknown						
6	Conte	ent -	by HPLC						
	Impu	rity	A	Not Detected			Not more than	20	0ppm
	Impu	rity	C	Not Detected		0 a ×	Not more than	20	0ppm
7*	Anilia	ne (Impurity K) (B	y HPLC)					
	Know	vn l	mpurities						
	Impu	ity	K(Aniline)	Test Not Perf	orm	ed	Impurity K(An than 10 ppm	ilir	ne): Not more
8	Chlor	ide	10	0.03 % w/w		,	Not more than	0.1	% w/w.
9	Sulph	ates	3	Less than 200	ppr	n.	Not more than	200	ppm.
10	Heavy		etals - Sample .0g	Less than 10			Not more than		
11	Loss	on c	lrying	0.22 % w/w			Not more than	0.5	% w/w.
12	Sulph			0.09 % w/w		P	Not more than	0.2	% w/w.
13	Assay	by	titrimetric	100 % w/w		1	Between 98.5 v w/w. (On dried		/ % and 101.5 %
14	Resid	ual	Solvents (By G	C)					
	Metha	_		BQL (<10.13	וממ8	n)	Not more than :	500)ppm
	Methy			BQL (<10.19			Not more than :		
15	-		HPLC	On dried basis On as is basis	s:1	00.2 %			nd 101.0 % (On
	Additi	ona	ıl Test						
16	рН			4.04		1	Between 3.5 and	d 4	.5
17		ger	sulfide and	Lead acetate t	est r	paper does not			aper should not
	sulfur			become disco		~	become discolo		
18			robial Count	Less than 10 (Not more than 1		
19	Total	Cor	nbined Molds	Less than 10 (Not more than 1		

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Product	1.:	Mesalazine Pl	ı. Eur.					Page 3 of 3
Item Code	:	BD0270P0DE				** ;		
Mfg. Date	:	Oct/2018	Batch No.	1:	MSNNJ18025	AR. No.	:	DFR0342
Exp. Date	1:	Sep/2023	Batch Size	:	533.68 KGS	Release Date	:	20.10.18

Sr.	Test	Observation/Results	Specification
20	Escherichia coli	Absent	Should be absent.
21	Salmonella	Absent	Should be absent.
22	Pseudomonas aeruginosa	Absent	Should be absent.
23	Staphylococcus aureus	Absent	Should be absent.
24	Bile tolerant gram negative bacteria	Absent	Should be absent.
25	Bulk Density		
25.1	Bulk Density	0.21 gm/ml	Between 0.2 gm/ml and 0.35 gm/ml
25.2	Tapped Density	0.48 gm/ml	Between 0.35 gm/ml and 0.60 gm/ml
26	Particle Size	10% Particle: 3.92 μ	Between 2 to 6 micron.
		50% Particle: 11.7 μ	Between 8 to 20 micron.
		90% Particle: 31.5 μ	Between 25 to 50 micron.
		100%Praticle : 58.8 μ	Not more than 90 micron.

*Note: No potential for impurity K as it is not being used in manufacturing process.

BQL = Below Quantification Limit

BDL = Below Detection Level

Remarks: The Product Complies as per Ph.Eur. Specification.

Prepared By	Checked By	Approved By
Jan 101/2	Roh 20-18	War 20.10.18
(Jignesh Desai) Sr. Officer-QA	(Rakesh Bhatt) Sr.Executive-QA	(Vijay Yadav) Sr. Managar-QA