

**Atul****Atul Ltd****Pharmaceuticals and Intermediates Business**

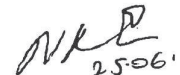
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CERTIFICATE OF ANALYSISProduct : **DAPSONE EP/BP**Batch No. : **19/006**Dispatch Qty : **25.00 Kg**MFG. DATE : **Mar. 2019**EXP. DATE : **Feb.2024**

Sr. No.	Test	Result unit	Requirement	Result
1.0	Pharmacopoeial Tests			
1.1	Description	--	A white or slightly yellowish-white crystalline powder	White crystalline powder
1.2	Solubility	--	Insoluble in water, freely soluble in acetone, sparingly soluble in alcohol and freely dissolves in dilute mineral acids.	Passes
1.3	Identification test			
1.3.1	Melting point	°C	175 - 181	178
1.3.2	Light absorption			
	- at 260 nm	A	700 - 760	741
	- at 295 nm	A	1150 - 1250	1209
1.3.3	TLC	--	Similar to reference standard	Passes
1.4	Related substances byTLC	--	Any spot obtained with test solution(a), apart from the principal spot, is not more intense than the reference solution(b) (1.0%) and not more than two such spots are more intense than reference solution (C) (0.2%)	No spot is more intense than reference solution(b) and No spot is more intense than reference solution(c)
1.5	Loss on Drying	%	Max. 0.30	0.07
1.6	Sulphated ash	%	Max. 0.10	0.03
1.7	Assay (by titration on dried basis)	%	99.0 - 101.0	99.5
2.0	Additional Tests			
2.1	Assay (HPLC) on dry basis	%	98.0 - 102.0	99.6
2.2	Related substances by HPLC			
2.2.1	4 Amino 4' Hydroxy DPS	% W/W	NMT 0.40	0.16
2.2.2	2,4' Diamino DPS	% W/W	NMT 0.10	BDL
2.2.3	4 Amino DPS	% W/W	NMT 0.40	0.25
2.2.4	4 Amino 4 Chloro DPS	% W/W	NMT 0.10	BDL
2.2.5	O-Dimer of Dapsone	% W/W	NMT 0.30	0.22
2.2.6	4 Chloro DPS	% W/W	NMT 0.10	BDL
2.2.7	Individual Unidentified Impurities	% W/W	NMT 0.10	0.04
2.2.8	Total Impurities	% W/W	NMT 1.5	0.67
2.3	Residual Solvent			
2.3.1	Methanol	ppm	NMT 2000	37
2.3.2	Mono Chloro Benzene	ppm	NMT 360	BDL
2.3.3	Benzene	ppm	NMT 2	BDL
2.4	Heavy Metals	ppm	Maximum 10	< 10

Remarks : The above product **PASSES** as per specification : SP/FP/DAP-EP (GEN)/01Analyst : 

Date : 25.06.19


25.06.19
Head, QA

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