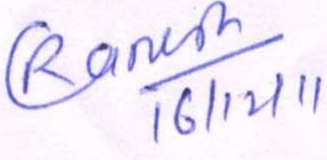
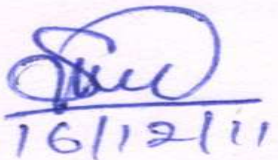
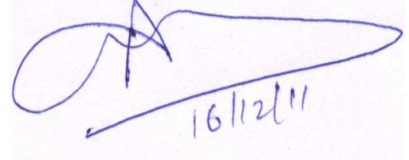


PRODUCT SPECIFICATION							
VALERIAN DRY EXTRACT							
Specification Number	SP/FP-241B	Pharmacopoeia Compliance	None	Revision Number	04	Page Number	1 of 1
Effective Date	16-12-2011	Next Revision	March 2014	Supersedes	SP/FP-241B 04-08-2010		

Physical & Chemical Characteristics		
TEST	TEST METHOD	SPECIFICATION
Description	Visual	Brown to light brown colored dry powder with typical odour of valerian.
Identification (By TLC)	TM/FP-241B	The spot and RF value of the sample should be similar to working standard
Particle Size (# 40 mesh)	TM/FP-241B	NLT 90% w/w
Bulk Density	TM/FP-241B	300 – 700 g/ltr.
Hydrosolubility	TM/FP-241B	Should be partially soluble in water
Liposolubility	TM/FP-241B	Should be partially liposoluble
pH (1% solution)	TM/FP-241B	3.0 – 5.0
Sulphated Ash	TM/FP-241B	NMT 15.0% w/w
Loss On Drying (3 hrs at 105°C)	TM/FP-241B	NMT 5.0% w/w
Heavy Metals (As Pb)	GTM-009	NMT 60 ppm
Assay (BY HPLC) (Total Valerenic Acid)	TM/FP-241B	NLT 0.8% w/w
Residual Solvent		
Ethanol (EtOH) Dichloro Methane (MDC)	TM/FP-241B	NMT 5000 ppm NMT 600 ppm
Microbiological Parameters		
Total Viable Bacterial Count	GTM-024	NMT 5000 cfu/gm
Total Yeast & Mould Count	GTM-024	NMT 100 cfu/gm
Enterobacteriaceae Count	GTM-024	NMT 100 cfu/gm
Staphylococcus aureus	GTM-024	Should be absent /gm
Pseudomonas aeruginosa	GTM-024	Should be absent /gm
Escherichia coli	GTM-024	Should be absent /gm
Salmonella spp.	GTM-024	Should be absent /gm

PREPARED BY	CHECKED BY	APPROVED BY
		
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