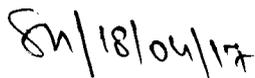


PRODUCT SPECIFICATION							
CENTELLA ASIATICA TRITERPENES USP							
Specification Number	SP/FP-462	Pharmacopoeia Compliance	USP	Revision Number	02	Page Number	1 of 2
Effective Date	18-04-2017	Next Revision Date	March 2020	Supersedes		SP/FP-462 01-02-2017	

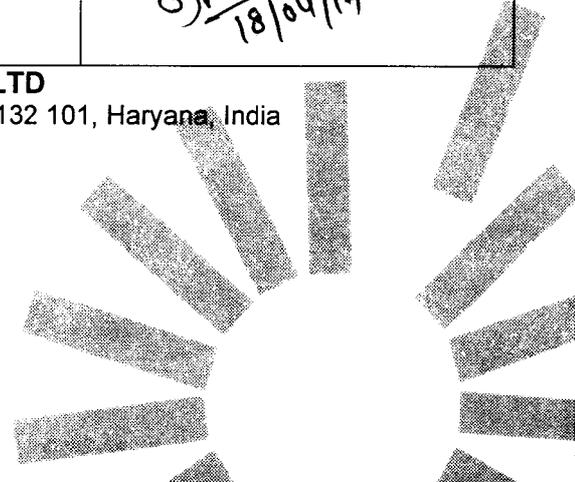
Physical & Chemical Characteristics

TEST	SPECIFICATION	TEST METHOD
DESCRIPTION	White to almost white powder	Visual
IDENTIFICATION	<p>A) By Thin Layer Chromatography Sample solution chromatogram shows a violet band in the lower third of the plate due to asiaticoside, corresponding in colour and Rf value to that in standard solution A. Other triterpenes derivatives should be present some or all as Madecassoside, Asiatic acid and Madecassic acid in sample solution with respect to Rf band position and colour in standard solution B.</p> <p>B) By HPLC The sample solution chromatogram from the test for content of triterpenes derivatives assay show a peak at the retention time correspond to that of Asiaticoside in standard solution A. The sample solution shows additional peaks corresponding to some or all of the following : Madecassoside and Asiaticoside (B), (These two peaks may co elute) Madecassic acid, Terminolic acid and Asiatic acid retention time corresponding to that of standard solution B.</p>	Method Reference: TM/FP-462
WATER CONTENT	NMT 5.0%	
ASSAY(By HPLC)(OAB) (Content of Triterpene Derivatives) (Sum of Madecassoside, Asiaticoside B, Asiaticoside, Madecassic acid, Terminolic acid & Asiatic acid)	NLT 90.0% (on anhydrous basis)	

PREPARED BY 	CHECKED BY 	APPROVED BY 
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LEPRO HERBALS (P) LTD

Works: Village Jhattipur, GT Road, Panipat – 132 101, Haryana, India



PRODUCT SPECIFICATION							
CENTELLA ASIATICA TRITERPENES USP							
Specification Number	SP/FP-462	Pharmacopoeia Compliance	USP	Revision Number	02	Page Number	2 of 2
Effective Date	18-04-2017	Next Revision Date	March 2020	Supersedes	SP/FP-462 01-02-2017		
Physical & Chemical Characteristics							
TEST		SPECIFICATION			TEST METHOD		
RESIDUAL SOLVENTS Acetone Butanol Chloroform Ethanol Methanol Toluene		NMT 5000 ppm NMT 5000 ppm NMT 60 ppm NMT 5000 ppm NMT 300 ppm NMT 890 ppm			Method Reference: TM/FP-462		
*PESTICIDE RESIDUE		Meets USP Requirements					
MICROBIOLOGICAL CONTROL							
Total aerobic microbial count		NMT 10 ³ cfu/g			Method Reference: GTM-024		
Total combined yeast and mold count		NMT 10 ² cfu/g					
Escherichia coli		Should be Absent / 10g					

*Residual pesticides will be tested annually on one batch.

PREPARED BY	CHECKED BY	APPROVED BY
<i>SH</i> 18/04/17	<i>SH</i> 18/04/17	<i>SH</i> 18/04/17

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