

WRS  
L4-5

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**Cipla**  
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**WORKING STANDARD CERTIFICATE**

**QUALIFICATION OF WORKING STANDARD**

ITEM : LEVONORGESTREL BP/Ph.Eur. EVALUATED WITH : EPCRS/MH/L02/05  
EPCRS/MH/L02/07  
DATE OF QUALIFICATION : 06.10.2015 BATCH No. : 2.0  
DIRECTION FOR STORAGE : Store between 2°C to 8°C.in a tightly closed container, Protect from light. #  
DIRECTION FOR USE : Use as such  
VALIDITY OF USE : 27.02.2017  
WORKING STANDARD No. : WS/C/L3/05  
A.R.No. : MH1508315  
SOURCE B. No. : LDX150010 SOURCE A.R.No. MH1503379 PAGE 1 OF 2

REFERENCE : BP 2015/Ph.Eur.8.0 STANDARDS

Protocol No:WP/ BP/Ph.Eur /WS/C/L3 version 02

Sr.No	TESTS	STANDARDS	RESULTS
1)	CHARACTERS		Complies
	A) APPEARANCE	A white or almost white, crystalline powder.	Complies
	B) SOLUBILITY	Pratically insoluble in water, sparingly soluble in methylene chloride, slightly soluble in Ethanol (96 per cent).	Complies
2)	*IDENTIFICATION		Complies
	A) By Specific optical rotation	The sample complies with the test for Specific Optical Rotation	Complies
	B) By Infrared Spectrophotometry	The infrared spectrum of the sample is concordant with the spectrum obtained from the similar determination of Levonorgestrel CRS.	Complies
3)	SPECIFIC OPTICAL ROTATION	Not less than -30.00° and Not more than -35.00°, calculated on dried basis	-33.93°
4)	RELATED SUBSTANCE (Method A)		Complies
	Impurity A	Not more than 0.3 %	Below disregard
	Impurity K	Not more than 0.3 %	Below disregard
	Impurity B	Not more than 0.3 %	Below LOQ (0.05%)
	Impurity O	Not more than 0.3 %	Below disregard
	Impurity M	Not more than 0.2 %	0.1
	Impurity S	Not more than 0.2 %	Below disregard
	Impurity U	Not more than 0.2 %	Not Detected
	Impurity H	Not more than 0.15 %	0.06
	Individual Unspecified impurity	Not more than 0.10%	Below LOQ (0.05%)
	Total impurities (other than impurity O)	Not more than 1.0%	0.2 %
5)	RELATED SUBSTANCE (Method B)		
	Impurity V	Not more than 0.15 %	0.00
	Impurity W	Not more than 0.3 %	0.0

**REMARKS:** \*Test/s qualified as per EPCRS. All other test complies as per BP 2015 and EP 8.0 standards and certified to be used as Working Standard.

**NOTE:** #Third party may store as per specification.

HEAD QUALITY CONTROL

DATE :

*[Signature]*  
06.10.2015

LAB QA HEAD *[Signature]*  
DATE: 06.10.2015  
**RECEIVED**

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1035-L-0014/F15

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SOURCE B. No. : LDX150010 SOURCE A.R.No. MH1503379 PAGE 2 OF 2

REFERENCE : BP 2015/Ph.Eur.8.0 STANDARDS

Protocol No:WP/ BP/Ph.Eur /WS/C/L3 version 02

Sr.No	TESTS	STANDARDS	RESULTS
6)	LOSS ON DRYING	Not more than 0.50 % w/w	0.24 % w/w
7)	SULPHATED ASH	Not more than 0.10 % w/w	0.05 % w/w
8)	ASSAY (By Potentiometry)	Levonorgestrel contains not less than 98.0%w/w & not more than 102.0% w/w of C <sub>21</sub> H <sub>28</sub> O <sub>2</sub> . Calculated with reference to the dried basis.	98.6 % w/w
9)	RESIDUAL SOLVENTS (By Gas Chromatography) Methanol Acetone Ethyl acetate Tetra hydrofuran Other class 1, 2, 3 residual solvents and other organic solvents.	Not more than 1000 ppm Not more than 1000 ppm Not more than 4500 ppm Not more than 500 ppm Meets the requirements of other class 1, 2 and 3 residual solvents as per BP supplementary chapter IV D and EP chapter 5.4 and no other organic solvents are present.	Complies Not Detected Not Detected 1506 Not Detected Meets the requirement
10)	PURITY ( By mass balance method)	Not applicable	99.5 % w/w (As such basis)

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