_		ro	rmat No.: F/QCGN/042/01
	SAI PRIMUS LIFE BIOTECH P/I, LTD	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 1 of 8
ı		Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPS: L13
-		Villianur Commune, Puducherry-605009	110115215
		FINISHED PRODUCT SPECIFICATION	Revision No: 01
	*	LOLIP 20 mg TABLETS	Review Period: 3 Years
		(Atorvastatin Calcium Tablets USP 20 mg)	
	Title:	Product Code: L13	Effective Date: 22 12 223

01	GENERAL	Pharmacopoeia Reference	USP
02	Composition	Label Claim	7 m
	Each Film coated tablet		
	contains:		
	Atorvastatin calcium USP	e garage	
	Equivalent to Atorvastatin	20 mg	1.2
			* # P = 40
03	Shelf life	36 months	-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -
04	Quantity of sample taken for	Lubricated granules: 100 gm	
	analysis	Bulk sample : 120 's (For complete analysis)	
		Finished product: 4(3 x 10's)	
		(For Physical parameter & Microbial Limit test only)	
			20 20 20 20 20 20 20 20 20 20 20 20 20 2
05	Control sample	7 [3 x 10's]	
06	Storage of Finished pack	Store in cool and dry place, Protect from light & store above 30°C.	& moisture. Do not

*	Prepared by	Checked by	Approved by
Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	7. level	C F	ASTV
Date	22/12/2013	22/12/12/13	20/10/2022
Department: Quality C	Control	Date of Issue: 22/11/2013	





SAI PRIMUS LIFE BIOTECH PVT LTD
Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,
Villianur Commune, Puducherry-605009
FINISHED PRODUCT SPECIFICATION
Revision No: 01

LOLIP 20 mg TABLETS
(Atorvastatin Calcium Tablets USP 20 mg)

Title:
Product Code: L13

Format No.: F/QCGN/042/01
Page 2 of 8
No.: FPS: L13

Revision No: 01
Revision No: 01

Review Period: 3 Years

BULK GRANULES SPECIFICATION

S.No.	TEST	LIMIT		METHOD
01	DESCRIPTION	White coloured granular	powder.	Follow section I of Method of analysis
02	ASSAY (By HPLC)			Follow section XII of Method of analysis
	Each 190 mg Granules Contains:			or inclined of allarysis
	Atorvastatin calcium USP Equivalent to Atorvastatin-20 mg	Not Less than 94.5 % and Not more than 105.0 %		

* , * ,	Prepared by	Checked by	Approved by
Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. Level	(4	Auc
Date	22/12/2023	22/12/2013	22/12/2023
Department: Quality Co		Date of Issue: 22/12/25	



	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 3 of 8
26	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate, Villianur Commune, Puducherry-605009	No.: FPS: L13
SAI PRIMUS LIFE BIOTECH PVT. LTD.	FINISHED PRODUCT SPECIFICATION	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
	(Atorvastatin Calcium Tablets USP 20 mg)	
Title:	Product Code: L13	Effective Date: 22/12/201

BULK PRODUCT SPECIFICATION

S.No.	TEST	LIMIT	METHOD
01	DESCRIPTION	White coloured, circular, biconvex uncoated tablet with breakline on one side and plain on other side.	Follow section I of Method of analysis
02	AVERAGE WEIGHT	190.00 mg ± 5.0 % (180.50 mg to 199.50 mg)	Follow section III of Method of analysis
03	UNIFORMITY OF WEIGHT	Not more than 2 of the individual weights deviate from the average weight by more than \pm 7.5 % and none deviate by more than \pm 15.0 %	Follow section IV of Method of analysis
04	DIMENSIONS Thickness Diameter	3.30 mm to 3.70 mm 7.80 mm to 8.20 mm	Follow section V of Method of analysis
05	HARDNESS	NLT 3 kg/cm ²	Follow section VI of Method of analysis
06	FRIABILITY	Not More Than 1.0 %	Follow section VII of Method of analysis
07	DISINTEGRATION TIME	Not more than 15 minutes	Follow section VIII of Method of analysis
08	DISSOLUTION By UV Atorvastatin calcium USP	Not less than 85.0 % of the labeled	Follow section IX of Method of analysis
	Equivalent to Atorvastatin-20 mg	amount of atorvastatin dissolved in 15 minutes.	
09	ASSAY (By HPLC) Each Uncoated tablet contains:		Follow section XII of Method of analysis
	Atorvastatin calcium USP Equivalent to Atorvastatin-20 mg	Not Less than 94.5 % and Not more than 105.0 %	Moniou of analysis

	Prepared by	Checked by	Approved by
Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. keups	CH	Air
Date	22/12/2029	22/12/2013	22/12/2013
Department: Quality C		Date of Issue: 22 11/1023	





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	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 4 of 8
	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPS: L13
SAI PRIMUS LIFE	Villianur Commune, Puducherry-605009	110.115.215
BIOTECH PVI. LTD.	FINISHED PRODUCT SPECIFICATION	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
	(Atorvastatin Calcium Tablets USP 20 mg)	
Title:	Product Code: L13	Effective Date: 2-2/12/201

RELEASE SPECIFICATION

S.No.	TEST	LIMIT	METHOD
01	DESCRIPTION	Pale yellow coloured, circular, biconvex film coated tablet with breakline on one side and plain on other side.	Follow section I of Method of analysis
02	IDENTIFICATION	orac and plant on other state.	Follow section II of Method of analysis
	A) By HPLC	The UV absorption spectrum of the major peak of the sample solution corresponds to that of the standard solution as obtained in the Assay.	Method of analysis
	B) By HPLC	The retention time of the major Peak of the sample solution corresponds to that of sample solution, as obtained in Assay.	
03	AVERAGE WEIGHT	195.00 mg ± 5.0 % (185.25 mg to 204.75mg)	Follow section III of Method of analysis
04	UNIFORMITY OF WEIGHT	Not more than 2 of the individual weights deviate from the average weight by more than \pm 7.5 % and none deviate by more than \pm 15.0 %	Follow section IV of Method of analysis
05	DIMENSIONS Thickness Diameter	3.40 mm to 3.80 mm 7.80 mm to 8.20 mm	Follow section V of Method of analysis
06	HARDNESS	NLT 3 kg/cm ²	Follow section VI of Method of analysis
07	DISINTEGRATION TIME	Not more than 30 minutes	Follow section VIII of Method of analysis
08	DISSOLUTION By UV Atorvastatin calcium USP Equivalent to Atorvastatin-20 mg	Not less than 85.0 % of the labeled amount of atorvastatin dissolved in 15 minutes.	Follow section IX of Method of analysis

	Prepared by	Checked by	Approved by
Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. karl	Ch	A.C
Date	22/12/2029	22/12/2023	22/12/2023
Department: Quality C		Date of Issue: 22/12/2023	

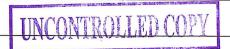


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	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 5 of 8
	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPS: L13
	Villianur Commune, Puducherry-605009	110.115. 215
BIOTECH PVI. LTD.	FINISHED PRODUCT SPECIFICATION	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
	(Atorvastatin Calcium Tablets USP 20 mg)	
Title:	Product Code: L13	Effective Date: 2-2/12/23

S.No.	TEST	LIMIT	METHOD
09	TIMIEODMITY OF DOCLOR	*	The United States
09	UNIFORMITY OF DOSAGE UNIT BY HPLC		Follow section X of Method of analysis
	Atorvastatin calcium USP		remod of dualy 515
	Equivalent to Atorvastatin-20 mg	L1=15	
10	RELATED SUBSTANCES (By HPLC)		Follow section XI of Method of analysis
4	A to manatation manuscript down		
57 6 7	Atorvastatin pyrrolidone Analog	NMT 0.5 %	
	7 maiog	711111 010 70	
	Atorvastatin related	N	
	compound H	NMT 1.0 %	
	Atorvastatin epoxy		
- 12 - 11 - 1	pyrrolooxazin 6- hydroxy analog	NMT 0.5 %	
	A		
	Atorvastatin epoxy pyrrolooxazin 7-hydroxy analog	NMT 0.5 %	
	pyrrotochazm / myarony amatog		1
		N. (T. 1.0.0)	
	Atorvastatin epoxy THF analog	NMT 1.0 %	
	Atorvastatin related compound D	NMT 0.5 %	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	See Spine was some a see		ini_ m woo ⊞r
	Any other unspecified degradation product	NMT 0.2 %	
	degradation product	INIVIT 0.2 70	
	Total degradation products	NMT 4.0 %	
11	ASSAY (By HPLC)		
	Each Film coated tablet contains:		
		No. 7 and St. 754	Follow section XII of
	Atorvastatin calcium USP Equivalent to Atorvastatin-20 mg	Not Less than 94.5 % and Not more than 105.0 %	Method of analysis

	Prepared by	Checked by	Approved by
Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. Censl	CH	kv
Date	22/12/2029	22/12/2013	22/12/2022
Department: Quality C		Date of Issue: 22/12/2012	



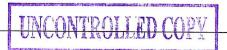


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		SAI PRIMUS LIFE BIOTECH PVT LTD	Page 6 of 8
		Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPS: L13
	Aller Barriers	Villianur Commune, Puducherry-605009	10 F15. E15
	BIOTECH PVI. LTD.	FINISHED PRODUCT SPECIFICATION	Revision No: 01
		LOLIP 20 mg TABLETS	Review Period: 3 Years
		(Atorvastatin Calcium Tablets USP 20 mg)	
	Title:	Product Code: L13	Effective Date: 0.1.4

S.No.	TEST	LIMIT	METHOD
12	MICROBIOLOGICAL LIMITS		Follow section XIII of
	Total Aerobic Microbial count	NAT 1000 OFUL	Method of analysis
	Total Yeasts and mould counts	NMT 1000 CFU/g NMT 100 CFU/g	
	E.Coli	Should be Absent	
	Salmonella	Should be Absent	
	S.aureus	Should be Absent	
	P.aeruginosa	Should be Absent	

re .	Prepared by	Checked by	Approved by
Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. Kengs	(la	Kr
Date	22/12/2029	22/12/2013	22/12/2022
Department: Quality C	ontrol	Date of Issue: 9-2/11/2	





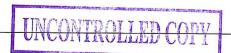
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	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 7 of 8
	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPS: L13
SAI PRIMUS LIFE	Villianur Commune, Puducherry-605009	110115. 215
BIOTECH PVT, LTD.	FINISHED PRODUCT SPECIFICATION	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
m:	(Atorvastatin Calcium Tablets USP 20 mg)	2
Title:	Product Code: L13	Effective Date: 22 12 12

SHELF LIFE SPECIFICATION

S.No.	TEST	LIMIT	METHOD
01	DESCRIPTION	Pale yellow coloured, circular, biconvex film coated tablet with breakline on one side and plain on other side.	Follow section I of Method of analysis
02	AVERAGE WEIGHT	195.00 mg ± 5.0 % (185.25 mg to 204.75mg)	Follow section III of Method of analysis
03	HARDNESS	NLT 3 kg/cm ²	Follow section VI of
04	DISINTEGRATION TIME	Not more than 30 minutes	Method of analysis Follow section VIII of Method of analysis
05	DISSOLUTION By UV Atorvastatin calcium USP	Not less than 85.0 % of the labeled	Follow section IX of
, °, ±,	Equivalent to Atorvastatin-20 mg	amount of atorvastatin dissolved in 15 minutes.	Method of analysis
06	RELATED SUBSTANCES (By HPLC)		Follow section XI of Method of analysis
	Atorvastatin pyrrolidone Analog	NMT 0.5 %	
<u>.</u>	Atorvastatin related compound H	NMT 1.0 %	
V =	Atorvastatin epoxy pyrrolooxazin 6- hydroxy analog	NMT 0.5 %	
	Atorvastatin epoxy pyrrolooxazin 7-hydroxy analog	NMT 0.5 %	
	Atorvastatin epoxy THF analog	NMT 1.0 %	
-	Atorvastatin related compound D	NMT 0.5 %	
	Any other unspecified		
	degradation product	NMT 0.2 %	
-	Total degradation products	NMT 4.0 %	·

*	Prepared by	Checked by	Approved by
Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. keys	C/4	A-v
Date	22/12/2027	22/12/1023	20/12/2023
Department: Quality C	ontrol	Date of Issue: عدم الدالدي	72 (11)





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20	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 8 of 8
	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPS: L13
Authorite End BitMelicate	Villianur Commune, Puducherry-605009	110 115. E15
BIOTECH PVI. LTD.	FINISHED PRODUCT SPECIFICATION	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
-	(Atorvastatin Calcium Tablets USP 20 mg)	
Title:	Product Code: L13	Effective Date: 22/12/20

S.No.	TEST	LIMIT	METHOD
07	ASSAY (By HPLC)	*	Follow section XII of
	Each Film coated tablet contains:		Method of analysis
	Atorvastatin calcium USP	Not Less than 94.5 % and	
	Equivalent to Atorvastatin-20 mg	Not more than 105.0 %	
08	MICROBIOLOGICAL		Follow section XIII of
	LIMITS		Method of analysis
	Total Aerobic Microbial count	NMT 1000 CFU/g	
	Total Yeasts and mould counts	NMT 100 CFU/g	
	E.Coli	Should be Absent	
	Salmonella	Should be Absent	
	S.aureus	Should be Absent	
	P.aeruginosa	Should be Absent	

HISTORY:

S. No.	Revision Number	Reason for Revision
1	Revision No.: 00	New Specification No: FPS: L13
2	Revision No.: 01	A note given in section XI for Related substance by HPLC with reference to the change control CC/23/069.

END OF DOCUMENT

	Prepared by	Checked by	Approved by
Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. Earl	C ft	Av
Date	22/12/2027	22/12/2022	22/12/2023
Department: Quality (Control	Date of Issue: 12/11/213	

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	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 1 of 13
	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPSTP: L13
	Villianur Commune, Puducherry-605009	1,011,111,111
BIOTECH PVT, LTD.	FINISHED PRODUCT STANDARD TEST PROCEDURE	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
70.41	(Atorvastatin Calcium Tablets USP 20 mg)	
Title:	Product Code: L13	Effective Date: 21 12/12

METHOD OF ANALYSIS

SECTION-I

DESCRIPTION: (By Visual Inspection)

Check physical aspects - Colour, shape and nature of tablets, presence of foreign material, mottling etc.,

SECTION - II

IDENTIFICATION

A. By HPLC

The UV absorption of the major peak of the sample solution corresponds to that of the standard solution, as obtained in the Assay

B. By HPLC

The retention time of the major peak of the sample solution corresponds to that of Sample solution, as obtained in the Assay.

SECTION - III

AVERAGE WEIGHT

Weigh 20 tablets and note down weight in g.

Determine the average weight. Report the result of average weight in mg.

	Weight of 20 tablets in g		
Average weight =		x 1000 =	mg
	20		

SECTION - IV

UNIFORMITY OF WEIGHT

Weigh individually 20 tablets taken for average weight. Calculate the percentage of highest and lowest variation of the tablets with maximum and minimum weight from the average weight of tablets by the following expression.

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Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. Cerel	Ch	ku
Date	22/12/2020	2-2/12/2012	22/12/2023
Department: Quality (Date of Issue: 22/12/12/13	



	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 2 of 13
26	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate, Villianur Commune, Puducherry-605009	No.: FPSTP: L13
SAI PRIMUS LIFE BIOTECH PVT, LTD.	FINISHED PRODUCT STANDARD TEST PROCEDURE	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
Title.	(Atorvastatin Calcium Tablets USP 20 mg)	
Title:	Product Code: L13	Effective Date: 12/11/201

Calculation:

SECTION - V

DIMENSIONS

Measure the Thickness and Diameter of 10 tablets using Digital Vernier Calipers. Record the reading in mm.

SECTION - VI

HARDNESS

Take 10 tablets randomly from sample drawn for analysis. Place one tablet diagonally in between the space provided in the hardness tester. Operate the instrument for tablet hardness tester. Note down the reading when tablet breaks. Repeat the test for remaining 9 tablets and record the values in Kg/cm². Express the results as the minimum and maximum values in Kg/cm².

SECTION - VII

FRIABILITY

Weigh accurately about 6.5 g of tablets note down the mass in grams (a). Place weighed tablets in friability test apparatus and operate the instrument as per SOP for tablet friability test apparatus, for 100 rotations. After completion of test collect the tablets from the sample collector carefully. Remove broken particles, chipped pieces (if any) by means of gentle brushing. Weigh the tablet and record the mass in grams (b).

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Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. Keyl	(Å	kv
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		Date of Issue: 22/11/2013	

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	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 3 of 13
216	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate, Villianur Commune, Puducherry-605009	No.: FPSTP: L13
SAI PRIMUS LIFE BIOTECH PAT. LTD.	FINISHED PRODUCT STANDARD TEST PROCEDURE	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
Title:	(Atorvastatin Calcium Tablets USP 20 mg)	₹
ritle:	Product Code: L13	Effective Date:

Calculate the weight loss (c= a-b).

Calculate the percentage as follows:

Calculation

 $c \times 100 = \% \text{ w/w}$

a

SECTION - VIII

DISINTEGRATION TIME

Determine on 6 tablets using water at $37^{\circ}\text{C} \pm 2^{\circ}\text{C}$. Place one tablet each in six tubes of the disintegration test apparatus, add a disc and suspend the assembly in water maintained at $37 \pm 2^{\circ}\text{C}$. Operate the apparatus till all residue passes through the mesh and note down the time taken. The time taken should not be more than the limit indicated in the product specification. If the tablets adhere to the disc repeat the test omitting the disc.

SECTION - IX

DISSOLUTION By UV

Dissolution Parameters:

Medium	:	pH 6.8 Phosphate Buffer		
Volume	:	900 mL	Part of State of Stat	
Apparatus	1:	USP Apparatus 2 (Paddle)	M. B. Grand	
RPM	:	75		
Temperature	:	37°C ± 0.5°C	1 2 3 192 1	
Time	:	15 minutes		

Instrumental Conditions:

Mode	•	Ultraviolet - visible spectroscopy	
Cell	:	0.5 cm	

2 147 1894	Prepared by	Checked by	Approved by
Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. Kay . I	C/Y-	kv
Date	22/12/2027	22/12/2023	22/12/2023
Department: Quality C	Control	Date of Issue: 22/11/1011	

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	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 4 of 13	
	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPSTP: L13	
	Villianur Commune, Puducherry-605009		
SAI PRIMUS LIFE BIOTECH PVT. LTD.	FINISHED PRODUCT STANDARD TEST PROCEDURE	Revision No: 01	
	LOLIP 20 mg TABLETS	Review Period: 3 Years	
m:u	(Atorvastatin Calcium Tablets USP 20 mg)	*	
Title:	Product Code: L13	Effective Date: 22/12/20	

Blank	:	Medium	I
Wavelength	:	244 nm	

Preparation of 0.05 M phosphate Buffer solution:

Dissolve 6.8 g of monobasic potassium Phosphate in 900 ml of water, adjust with 6N sodium hydroxide to a pH of 6.8 and dilute with Water to 1000 ml.

Preparation of Diluent:

Mixture of 50 ml of Acetonitrile and 50 ml of water, mix well.

Preparation of Standard Stock Solution:

Weigh accurately and dissolve 26 mg of Atorvastatin Calcium working standard in a 25 ml of volumetric flask. Add about 15 ml of Diluent to dissolve the substance. Shake mechanically for 10 min or until dissolved. Dilute up to the mark using Diluent. (Concentration: 1 mg/ml of USP Atorvastatin Calcium working standard)

Preparation of Standard Solution:

Dilute 2 ml of above solution to 100 ml using disso medium.

(Concentration: 0.020 mg/ml of Atorvastatin Calcium working standard).

Preparation of Sample Solution:

Place one tablets in each vessel containing 900 ml of dissolution medium maintained at 37 °C (\pm 0.5 °C). With draw the aliquot from vessel, at given interval, through a suitable filter or centrifuge. (Concentration: 0.022 mg/ml of Atorvastatin Calcium).

Calculation:

Calculated the content of Atorvastatin Calcium equivalent to Atorvastatin by using following formula,

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Designation	Executive-QC	Sr. Executive-QC	Manager-QC	
Signature J. keyl Date 22/12/2022		Ch	Av	
		22/11/2013	22/12/2023	
Department: Quality C		Date of Issue: 22/12/2013		

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	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 5 of 13
	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPSTP: L13
	Villianur Commune, Puducherry-605009	
BIOTECH PVT. LTD.	FINISHED PRODUCT STANDARD TEST PROCEDURE	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
Title:	(Atorvastatin Calcium Tablets USP 20 mg)	
	Product Code: L13	Effective Date: 22/12/2

Where,

A = Area of peak obtained due to sample solution

B = Area of peak obtained due to standard solution

P = Purity of Atorvastatin Calcium working standard

CF = Conversion Factor (0.967)

LC = Label claim (mg / tablet)

SECTION - X

CONTENT UNIFORMITY (By HPLC):

For chromatographic parameters & preparation of mobile phase & Standard preparation & System suitability and Diluent follow as under Assay.

Preparation of content uniformity:

Take 1 tablet into 200 ml of volumetric flask, Add about 100 ml of diluent. Shake for 15 minutes or until dissolved and make up with diluent and centrifuge or Pass through a suitable filter of 0.45 μ m pore size.(Concentration: 0.1 mg/ml of atorvastatin Calcium).

Repeat the same procedure for another 9 tablets.

Calculations (Uniformity content):

Calculated the content of Atorvastatin tablet by using following formula

Where,

A= Peak area of sample preparation

B= Average peak area of standard solution

W1= Weight of standard taken

LC = Label claim

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Designation	Executive-QC	Sr. Executive-QC		
Signature J. Leyl Date 22/12/2020		Ch	Av	
		22/12/2023	22/12/2023	
Department: Quality (Date of Issue: 22/12/2013		



(ct 25)	SAI PRIMUS LIFE BIOTECH PVT LTD	Page 6 of 13	
31/4	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPSTP: L13	
	Villianur Commune, Puducherry-605009		
SAI PRIMUS LIFE BIOTECH PVT, LTD.	FINISHED PRODUCT STANDARD TEST PROCEDURE	Revision No: 01	
	LOLIP 20 mg TABLETS	Review Period: 3 Years	
Title:	(Atorvastatin Calcium Tablets USP 20 mg)		
	Product Code: L13	Effective Date: 12/12/1	

P = % Purity of standard (on as is basis)

CF = Conversion factor (0.967)

SECTION - XI

RELATED SUBSTANCES (By HPLC)

Note: A freshly prepared solution should be used for the injection after establishing system suitability with standard and placebo.

Chromatographic Conditions:

Column	:	C18, 4.6- mm x 250 mm; 5-µm (or) equivalent		
Detector	:	UV 244 nm		
Sample Temperature	:	10°C		
Column Temperature	:	30°C		
Flow rate	:	See the table mentioned below		
Injection volume	:	20 μL		

Mobile phase:

Time	Solution B (%)	Solution C (%)	Flow rate (ml/ min)
0	100	0	1.8
30	100	0	1.8
45	25	75	1.5
50	25	75	1.5
55	20	80	1.5
58	100	0	1.8
65	100	0	1.8

For the standard solution, the run time is only 30 min. For the system suitability solution and Sample solution, the run time is 65 min.

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Designation	Executive-QC	Sr. Executive-QC	Manager-QC	
Signature 7-lay		C/z	Av	
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Department: Quality (Date of Issue: 22/12/1019		





Format No.: F/QCGN/042/02 SAI PRIMUS LIFE BIOTECH PVT LTD Page 7 of 13 Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate, No.: FPSTP: L13 Villianur Commune, Puducherry-605009 SAI PRIMUS LIFE FINISHED PRODUCT STANDARD TEST PROCEDURE Revision No: 01 RIOTECH PVT. LTD. Review Period: 3 Years **LOLIP 20 mg TABLETS** (Atorvastatin Calcium Tablets USP 20 mg) Title: Effective Date: 22/12/2013 Product Code: L13

Preparation of Buffer:

Dissolve 5.75 g of monobasic ammonium phosphate in 1000 ml of water. Adjust with dilute Acetic acid (10 % v/v) or dilute ammonium hydroxide (10 % v/v) to a pH of 4.3 \pm 0.05.

Preparation of Solution-A:

Prepare the solution of 925 ml of Acetonitrile and 75 ml of stabilizer- free tetrahydrofuran solution.

Preparation of Solution-B:

Mixture of 420 ml of solution-A and 580 ml of buffer. Sonicate and Filter through 0.45 micron membrane filter and degas.

Preparation of Solution-C:

Mixture of 600 ml of methanol and 200 ml of solution-A and 200 ml of buffer. Sonicate and Filter through 0.45 micron membrane filter and degas.

Diluent:

N, N-Dimethylformide.

Preparation of System Suitability solution:

Weigh accurately 5 mg of USP Atorvastatin Related Compound-D RS in 100 ml volumetric flask. Add 50 ml of diluent and dissolve the substance. Sonicate to dissolve if necessary. Dilute up to the mark using the same solvent. Dilute 1 ml of this solution to 100 ml volumetric flask, add weigh accurately 6 mg of USP Atorvastatin Calcium RS and 5 mg of USP Atorvastatin Calcium Compound-B RS and 1 mg of USP Atorvastatin Related Compound-H RS, Add 50 ml of diluent and dissolve the substance. Dilute up to the mark using the same solvent.

Preparation of Standard solution:

Weight accurately and transfer 50 mg of Atorvastatin calcium working standard in 100 ml volumetric flask. Add 70 ml of Diluent and dissolve the substance. Sonicate to dissolve, if Necessary. Dilute up to the mark with Diluent. Further dilute 1 ml of this solution with 100 ml of diluent.

(Concentration: 5 µg/ml of USP Atorvastatin calcium working standard)

Preparation of Placebo solution:

Transfer the 438 mg of placebo (equivalent to about 50 mg of atorvastatin), to a 50 ml volumetric flask. Add 30 ml of diluent and shake mechanically for 15 min. Dilute with diluent to volume and pass the solution through a

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Designation	Executive-QC	Sr. Executive-QC		
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		Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate, Villianur Commune, Puducherry-605009	No.: FPSTP: L13	
	AI PRIMUS LIFE BIOTECH PVT. LTD.	FINISHED PRODUCT STANDARD TEST PROCEDURE	Revision No: 01	
		LOLIP 20 mg TABLETS	Review Period: 3 Years	
	TC:41	(Atorvastatin Calcium Tablets USP 20 mg)		
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suitable filter of 0.45-µm pore Size, discarding the first few ml of the filtrate.

Preparation of Sample powder:

Weigh accurately 20 tablets and make the powder by using mortar and pestle. Use the same for preparation of sample solution. Calculate the average weight by taking weight of 20 tablets taken above and use the same for calculation.

Preparation of Sample solution:

Transfer the 488 mg of powder (equivalent to about 50 mg of atorvastatin), to a 50 ml volumetric flask. Add 30 ml of diluent and shake mechanically for 15 min. Dilute with diluent to volume and pass the solution through a suitable filter of 0.45-µm pore Size, discarding the first few ml of the filtrate. (Concentration: 1 mg/ml of atorvastatin)

Sequence of Injections:

- 1) Blank
- 2) Standard solution 6
- 3) Blank
- 4) Placebo solution
- 5) Blank
- 6) Sample solution
- 7) Standard solution (B)

System suitability:

Sample: system suitability solution

[Note: The relative retention times of the all peaks eluting before atorvastatin related Compound-H as given in table are calculated with respect to the atorvastatin peak. The relative retention times of the all peaks eluting after atorvastatin related compound-H are calculated with respect to Atorvastatin related compound-H.]

Suitability requirements:

- 1)The Resolution between the peaks corresponding to Atorvastatin related compound-B and Atorvastatin obtained with standard solution should not less than 1.4
- 2) The tailing factor for the peak of Atorvastatin with standard solution should not more than 1.5.

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90 4	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPSTP: L13			
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SAI PRIMUS LIFE BIOTECH PVT, LTD.	FINISHED PRODUCT STANDARD TEST PROCEDURE	Revision No: 01			
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Title:	(Atorvastatin Calcium Tablets USP 20 mg)				
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- 3) The % RSD for the peak area response of Atorvastatin obtained with the replicate injections of standard solution should not more than 5.00
- 4) The Signal-noise -ratio of Atorvastatin related compound-D not less than 10.0.

Calculations:

Calculate the percentage of each impurity in the portion of tables taken.

	Α	W1	1	50	P	100	1
=	=	x x	x		x >	ζ	x CF x AW x
	В	100	100	W2	100	LC	RRF

Where,

- A = Area of peak obtained due to sample solution
- B = Area of peak obtained due to standard solution
- W1 = Weight of standard Atorvastatin Calcium working standard in mg
- W2 = Weight of sample in g
- CF = Conversion factor (0.967)
- P = Purity of Atorvastatin Calcium working standard
- AW = Average Weight of tablet (in g)
- RRF= Relative response factor of individual impurities.

Acceptance criteria:

Name	RRT	RRF	Limits
Atorvastatin amide	0.44		- ·
Atorvastatin related compound A	0.84	- 17 x T	
Atorvastatin pyrrolidone analog	0.88	0.68	0.5
Atorvastatin related compound B	0.94	- 	-
Atorvastatin	1.00	<u> </u>	
Atorvastatin related compound C	1.09		
Atorvastatin pyrrolidone lactone	1.62		

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	LOLIP 20 mg TABLETS	Review Period: 3 Years
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Atorvastatin related compound H	1.00	1.18	1.0
Atorvastatin epoxy pyrrolooxazin 6-hydroxy analog	1.06	0.53	0.5
Atorvastatin methyl ester	1.12		
Atorvastatin epoxy pyrrolooxazin 7-hydroxy analog	1.14	0.53	0.5
Atorvastatin epoxy THF analog	1.20	1.12	1.0
Atorvastatin related compound D	1.27	1.12 .	0.5
Atorvastatin tert-butyl ester	1.49		
Any other unspecified degradation product		1.00	0.2
Total degradation products		- 4	. 4.0

SECTION-XII

ASSAY (By HPLC):

Chromatographic conditions:

Column	:	C18,4.6-mm × 250 mm; 5-	μm or equivalent	
Detector	*	Assay: UV 244 nm Identification A: Diode arra	ay; UV 200–400 nm	
Column temperature	:	30 °C	Type and the second	
Flow rate		1.5 ml/min	The African	
Injection volume	:	20 μL	1 - 22 - 20 - 20 - 20 - 20 - 20 - 20 - 2	Language Salaman

Preparation of 0.05 M ammonium citrate buffer pH 4.0:

Dissolve 9.62 g of anhydrous Citric acid in 950 ml of water. Adjust with dilute ammonium hydroxide to a pH of 4.0 and dilute with water to 1000 ml.

Preparation of Mobile phase:

Mix 270 volumes of Acetonitrile and 200 volumes of stabilizer-free tetrahydrofuran and 530 volumes of buffer. Sonicate and Filter through 0.45 micron membrane filter and degas.

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Designation	Executive-QC	Sr. Executive-QC	Manager-QC
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SAI PRIMUS LIFE BIOTECH PVT. LTD.	FINISHED PRODUCT STANDARD TEST PROCEDURE	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
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Title:	Product Code: L13	Effective Date: 11/12/12

Preparation of Solution-A:

Dissolve 9.62 g of anhydrous citric acid in 950 ml of water, adjust with ammonium hydroxide to a pH of 7.4 and dilute with water to 1000ml.

Preparation of Diluent:

Mixture of 1 volume of Acetonitrile and 1 volume of Solution-A.

System suitability solution:

Weigh accurately 10 mg of USP Atorvastatin calcium working standard and 1 mg of USP Atorvastatin Related Compound H RS in a 100 ml volumetric flask. Add 70 ml of Diluent and dissolve the substance. Shake mechanically for 30 min or until dissolved. Dilute up to the mark using the same solvent. (Concentration: 0.1 mg/ml of USP Atorvastatin calcium RS and 0.01 mg/ml of USP Atorvastatin related compound H RS)

Preparation of Standard solution:

Weigh and transfer about 20.70 mg of Atorvastatin calcium working standard to a 200 ml volumetric flask. Add about 100 ml of diluent. Shake for 15 minutes, Dissolve make up with same solvent.

(Concentration: 0.1 mg/ml of Atorvastatin calcium working standard)

Preparation of Sample solution:

Weigh accurately and transfer accurately 10 intact tablets (equivalent to 200 mg of Atorvastatin) in a 200 ml volumetric flask. Add about 100 ml of diluent. Shake for 15 minutes, dilute with same solvent and centrifuge or pass through a suitable filter of 0.45 µm pore size filter. Further dilute 5 ml of this solution in to 50 ml of volumetric flask with diluent. (Concentration: 0.1 mg/ml of atorvastatin Calcium)

Note: Prepare sample solution in duplicate.

Sequence of Injections:

- 1) Blank
- 2) Standard solution5
- 3) Blank solution
- 4) Sample solution.....1
- 5) Sample solution.....2
- 6) Standard solution (B)

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Designation	Executive-QC	Sr. Executive-QC	Manager-QC
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	Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,	No.: FPSTP: L13
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SAI PRIMUS LIFE BIOTECH PVT. LTD.	FINISHED PRODUCT STANDARD TEST PROCEDURE	Revision No: 01
	LOLIP 20 mg TABLETS	Review Period: 3 Years
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Title;	Product Code: L13	Effective Date: 22/12/20
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7)Sample CU-1	5
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- 8) Standard solution (B)
- 9)Sample CU-6-----10
- 10) Standard solution (B)

System suitability requirement:

- 1)The Resolution between the peaks corresponding to Atorvastatin and Atorvastatin related compound-H obtained with standard solution should not less than 5.0.
- 2) The tailing factor for the peak of Atorvastatin with standard solution should not more than 1.5.
- 3) The % RSD for the peak area response of Atorvastatin obtained with the replicate injections of standard solution should not more than 1.00.

Calculation:(ASSAY)

1) Calculated the content of Atorvastatin tablet by using following formula,

Where,

A = Area of peak obtained due to sample solution

B = Area of peak obtained due to standard solution

W1= Weight of atorvastatin Calcium standard in mg

W2= Weight of sample in g

P = Purity of Atorvastatin Calcium working standard

LC = Label claim

AW = Average Weight of tablet (in g)

CF = Conversion factor (0.967)

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Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. keyl	Ch.	KV
Date	22/12/2027	22/12/2018	22/12/2022
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Factory: R.S. No. 4/3, Plot No.33, Kurumbapet Industrial Estate,
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FINISHED PRODUCT STANDARD TEST PROCEDURE

LOLIP 20 mg TABLETS
(Atorvastatin Calcium Tablets USP 20 mg)

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2) Calculate the average content of assay by using following formula,		
	a	
Assay value obtained with sample 1 + Assay value obtained with sample 2		
=		

2

Product Code: L13

SECTION-XIII

MICROBIOLOGICAL LIMITS

Refer to SOP No. QCMB 006.

HISTORY:

S. No.	Revision Number	Reason for Revision
1	Revision No.: 00	New STP No:FPSTP: L13
2	Revision No.: 01	A note given in section XI for Related substance by HPLC with reference to the change control CC/23/069.

END OF DOCUMENT

	Prepared by	Checked by	Approved by
Designation	Executive-QC	Sr. Executive-QC	Manager-QC
Signature	J. Keyl	CA	An
Date	22/12/2021	2-2/12/2023	22/12/2003
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