## Macleods Pharmaceuticals Limited, Block-N2, Village: Theda, P.O.:Lodhimaira, Tehsil: Baddi, Dist.-Solan, Himachal Pradesh 174101, India.



# CERTIFICATE OF ANALYSIS (FINISHED PRODUCT)

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Name of Product: LAMIVUDINE ORAL SOLUTION (10 mg/ mL)				
Batch No.	BLH12305A	Batch Size	3333 Bottle	
A.R. No.	BAFPS23000291	Stage	FINISHED (PACKING)	
Product Code	WP003462	Market ,	PFSCM (ENG/FRENCH/SPANISH)	
Mfg. Date	Jun-2023	Exp. Date	May-2025	
Specification Id	CO/SPC/CQA/WP003462R- 000	STP No.	CO/STP/CQA/WP003462-000	
Date of Analysis	14-Jul-2023 13:00	Date of Release	17-Jul-2023 14:30	

S. No.	TEST	SPECIFICATION	RESULT
1	DESCRIPTION	Clear, colorless to pale yellow, flavored liquid.	Clear, colorless, flavored liquid.
2	IDENTIFICATION		
2.1	For Lamivudine By HPLC	The retention time of the Lamivudine peak in the chromatogram of sample preparation should correspond to that of the Lamivudine peak in the chromatogram of standard preparation as obtained in the "Assay".	The retention time of the Lamivudine peak in the chromatogram of sample preparation correspond to that of the Lamivudine peak in the chromatogram of standard preparation as obtained in the "Assay".
2.2	By UV	The UV absorption spectra of sample and standard preparation should be concordant.	The UV absorption spectra of sample and standard preparation is concordant.
2.3	For Preservatives (By HPLC) Propyl paraben and methyl paraben	The retention time of the Propyl paraben and Methyl paraben peaks in the chromatogram of sample preparation should correspond to that of the Propyl paraben and Methyl paraben peaks in the chromatogram of standard preparation as obtained in the test for "Antimicrobial Preservative Content".	The retention time of the Propyl paraben and Methy paraben peaks in the chromatogram of sample preparation correspond to that of the Propyl paraben and Methyl paraben peaks in the chromatogram of standard preparation as obtained in the test for "Antimicrobial Preservative Content".
3	WEIGHT PER ML (g/mL)	1.10 ± 0.1	1.08 g/mL
4	DELIVERABLE VOLUME (Labeled volume : 240 mL)	The average volume should not be less than 100% of the volume declared in the labeling and volume of no container should be less than 95% of the volume declared in the labeling.	Min volume:100 % Max volume:101 % Average volume:100 %

Remark(s): APPROVED (Sample conforms to above Specification)
Comment(s): Approved

Prepared By	MANOJ.KUMAR	Reviewed By	SUCHINDRA.KUM	Approved By	NITIN.SINGH
(Role/Employee	(Reviewer/H017985	(Role/Employee	AR (Manager	(Role/Employee	(Manager
ID)	)	ÌD)	QC/H002521)	ÌD)	QA/H017560)
Prepared On	15-Jul-2023 14:16	Reviewed On	15-Jul-2023 15:11	Approved On	17-Jul-2023 14:30

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S. No.	TEST	SPECIFICATION	RESULT
5	рН	5.7 to 6.3	6.092
6	RELATED SUBSTANCES (By HPLC, % w/w)		
6.1	Unknown - 1 impurity (with RRT of about 0.41)	Not more than 0.7	BELOW LIMIT OF QUANTITATION
6.2	Unknown - 2 impurity (with RRT of about 0.43)	Not more than 0.3	BELOW LIMIT OF QUANTITATION
6.3	Impurity J	Not more than 3.5	Not Detected
6.4	Any other impurity	Not more than 0.20	BELOW LIMIT OF QUANTITATION
6.5	Total impurities	Not more than 6.5	BELOW LIMIT OF QUANTITATION
7	RESIDUAL SOLVENTS	Should comply with option 1 of USP residual solvents <467>.	Complies with option 1 of USP residual solvents <467>.
8	ASSAY (By HPLC, For Lamivudine [C <sub>8</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub> S])	mg per mL - Not less than 9.0 and not more than 10.5 % label claim - Not less than 90.0 and not more than 105.0	mg per mL:9.98 mg % label claim:99.8 %
9	ANTIMICROBIAL PRESERVATIVE CONTENTS (By HPLC)		
9.1	Methyl paraben [C <sub>8</sub> H <sub>8</sub> O <sub>3</sub> ]	mg per mL - Not less than 0.75 % added amount (1.5 mg/ mL) - Not less than 50.0	mg per mL:1.50 mg % added amount (1.5 mg/ mL):100.0 %
9.2	Propyl paraben [C <sub>10</sub> H <sub>12</sub> O <sub>3</sub> ]	mg per mL - Not less than 0.09 % added amount (0.18 mg/ mL) - Not less than 50.0	mg per mL:0.18 mg % added amount (0.18 mg/ mL):99.2 %
10	MICROBIAL ENUMERATION TESTS AND TESTS FOR SPECIFIED MICROORGANISMS	•	

Remark(s): APPROVED (Sample conforms to above Specification)
Comment(s): Approved

Prepared By	MANOJ.KUMAR	Reviewed By	SUCHINDRA.KUM	Approved By	NITIN.SINGH
(Role/Employee	(Reviewer/H017985	(Role/Employee	AR (Manager	(Role/Employee	(Manager
ID)	)	ID)	QC/H002521)	ÌD)	QA/H017560)
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S. No.	TEST	SPECIFICATION	RESULT
10.1	Microbial enumeration tests		
10.1.1	Total aerobic microbial count (cfu / mL)	Not more than 100	<10 cfu/mL
10.1.2	Total combined molds and yeast (cfu/ mL)	Not more than 10	<10 cfu/mL
10.2	Tests for specified microorganisms		
10.2.1	Staphylococcus aureus	Should be absent .	Absent
10.2.2	Pseudomonas aeruginosa	Should be absent	Absent
10.2.3	Salmonella species	Should be absent	Absent
10.2.4	Escherichia coli	Should be absent	Absent

Remark(s): APPROVED (Sample conforms to above Specification)

Comment(s): Approved

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