

WRS  
M6-6



**QUALITY CONTROL DEPARTMENT**  
**CERTIFICATE OF ANALYSIS**

**Product** : Montelukast (As Sodium) Tablets 10 mg  
**Pack Description** : 30 tablets packed in a 60 cc HDPE container with 33 mm CRC cap and 1 x 2 g silica gel desiccant.  
**Generic Name** : Montelukast (As Sodium) Tablets  
**Mfg Date** : Sep 2015  
**Batch Number** : 19151915  
**A. R. Number** : 40000028550  
**Exp Date** : Aug 2017  
**Batch Size** : 150,000 Tablets  
**Market** : Africa Region  
**Date of Report** : 06/01/2016

TEST	SPECIFICATION	OBSERVATION	
Description	Round, Beige colored, biconvex film coated tablets engraved with 'G' on one side and '392' on other side.	Round, Beige colored, biconvex film coated tablets engraved with 'G' on one side and '392' on other side.	
Identification	<b>A. Montelukast:</b>		
	<b>I: By HPLC:</b> The retention time of the principal peak in the chromatogram of the Sample solution should correspond to that of the Motelukast peak in the chromatogram of the Standard solution in the test for Assay.	Meets the requirement	
	<b>II: By UV:</b> UV absorption spectra of the Sample solution and the Standard solution should exhibit maxima and minima at same wavelengths.	Meets the requirement	
	<b>B : For Colour:</b>		
	<b>I: For Titanium Dioxide:</b> Yellow color should develop	Meets the requirement	
	<b>II: For ferric oxide:</b> Red color should develop	Meets the requirement	
Uniformity of mass	206.00 mg $\pm$ 5 %	202.29 mg	
Disintegration time	Not more than 30 minutes	03 minutes 12 seconds	
Dissolution (By HPLC)	Not less than 80 % (Q) of the labeled amount of Motelukast is released in 20 minutes.		
	Level	Acceptance criteria (ph.Eur.2.9.3 as updated)	1. 97 %                      2. 101 % 3. 100 %                    4. 100 % 5. 104 %                    6. 106 %
	S1	Each unit is not less than Q + 5 %	Min: 97 %
	S2	Average of 12 units ( S1 + S2 ) is equal to or greater than Q and no unit is less than Q - 15 %	Max: 106 %
	S3	Average of 24 units ( S1 + S2 + S3 ) is equal to or greater than Q, not more than 2 units are less than Q -15 % and no unit is less than Q - 25 %	Mean: 101 %

**COMPILED BY:** Don  
**NAME:** Machindra Kadem  
**DESIGNATION:** Executive  
**DATE:** 06/01/16

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**NAME:** Ganesha Pandit  
**DESIGNATION:** Manager  
**DATE:** 06/01/16

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**DESIGNATION:** Asst. Manager  
**DATE:** 06/01/16  
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## QUALITY CONTROL DEPARTMENT

glenmark

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TEST	SPECIFICATION	OBSERVATION
Uniformity of dosage units (Content uniformity) (By HPLC)	Criteria 1 : Acceptance value NMT 15.0 when determined on 10 dosage units	4.2
	Criteria 2 : Acceptance value NMT 15.0 when determined on 30 dosage units and No dosage units is less than 0.75M and more than 1.25M	
Related substances (By HPLC)	Acid impurity : Not more than 0.15 %w/w	Below LOQ
	Sulphoxide impurity : Not more than 0.5 %w/w	0.11 %w/w
	Keto impurity : Not more than 0.15 %w/w	Below LOQ
	Ester impurity : Not more than 0.15 %w/w	Not Detected
	Dehydrated impurity : Not more than 0.15 %w/w	0.01 %w/w
	Chloro alcohol impurity : Not more than 0.15 %w/w	Not Detected
	Single maximum unknown impurity : Not more than 0.20 %w/w	0.04 %w/w
	Total impurities : Not more than 2.00 %w/w	0.31 %w/w
Assay (By HPLC)	Not less than 9.50 mg and not more than 10.50 mg of Montelukast Sodium equivalent to Montelukast. (95.0 % w/w – 105.0 % w/w of Label claim)	10.07 mg
		100.7 %w/w
Water content (By KF)	NMT 6.0 % w/w	4.6 %w/w
Test for Microbial Enumeration and Specified Micro organisms	Total aerobic microbial count : NMT 1000 cfu / g	< 10 cfu/g
	Total combined yeast and mold count : NMT 100 cfu / g	< 10 cfu/g
	<b>Absence of specified organisms:</b> Escherichia coli : Absent	Absent

LOQ : Limit Of Quantitation

LOQ for Acid impurity is 0.01 %w/w

LOQ for Keto impurity is 0.01 %w/w

**Remark:** The referred batch complies as per above referred specification.

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