

# METAPHARMACEUTICAL

N DE LOTE:

0410525

## AVIK PHARMACEUTICAL LIMITED

A- 1/7 & A- 1/8, 1<sup>st</sup> Phase, GIDC., Vapi - 396 195. Dist-Valsad, Gujarat State, India

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### CERTIFICATE OF ANALYSIS

*0410525*

Name of Product : BETAMETHASONE VALERATE EP		CAS. No : [2152-44-5]
IUPC name : 9-Fluoro-11 $\beta$ , 21-dihydroxy-16 $\beta$ -methyl-3, 20-dioxopregna-1, 4-diene-17-yl pentanoate.		
Batch No. : BV/M/002/25	A. R. No. : AVK/BV/003/25	
Mfg. Date : Jan.- 2025	Exp. Date : Dec.- 2029	
Batch size : 30920 gm	Batch out put : 30460 gm	
Date of released : 13/01/2025		

TESTS	SPECIFICATIONS	RESULTS																																								
<b>CHARACTERS</b>																																										
<b>APPEARANCE</b>	White or almost white crystalline powder.	White crystalline powder.																																								
<b>SOLUBILITY</b>	Practically insoluble in water, freely soluble in acetone and in Methylene chloride, soluble in ethanol (96 %).	Conforms																																								
<b>MELTING POINT</b>	About 192 °C, with decomposition.	193.1°C																																								
<b>IDENTIFICATION</b>	<p>A) By I.R: Infrared absorption spectrum of the sample should be in concordant with the IR spectrum of Betamethasone 17-Valerate working standard.</p> <p>B) By TLC: The principal spot in the chromatogram obtained with the test solution is similar in position, colour, and size to the principal spot in the chromatogram obtained with the reference solution</p> <p>C) By HPLC: The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution (b).</p> <p>D) By chemical: The colour is discharged and a clear solution remains</p>	Conforms																																								
<b>SPECIFIC OPTICAL ROTATION</b>	+ 77° to + 83° ( dried substance ).	+78°																																								
<b>RELATED SUBSTANCES (BY HPLC)</b>	<table style="width: 100%; border-collapse: collapse;"> <tr><td>Impurity A</td><td>: NMT</td><td>0.7</td><td>%</td></tr> <tr><td>Impurity B</td><td>: NMT</td><td>0.15</td><td>%</td></tr> <tr><td>Impurity I</td><td>: NMT</td><td>0.15</td><td>%</td></tr> <tr><td>Impurity C</td><td>: NMT</td><td>0.15</td><td>%</td></tr> <tr><td>Impurity H</td><td>: NMT</td><td>0.15</td><td>%</td></tr> <tr><td>Impurity D</td><td>: NMT</td><td>0.15</td><td>%</td></tr> <tr><td>Impurity E</td><td>: NMT</td><td>0.3</td><td>%</td></tr> <tr><td>Impurity G</td><td>: NMT</td><td>0.3</td><td>%</td></tr> <tr><td>Unspecified impurity</td><td>: NMT</td><td>0.10</td><td>%</td></tr> <tr><td>Total impurities</td><td>: NMT</td><td>1.5</td><td>%</td></tr> </table>	Impurity A	: NMT	0.7	%	Impurity B	: NMT	0.15	%	Impurity I	: NMT	0.15	%	Impurity C	: NMT	0.15	%	Impurity H	: NMT	0.15	%	Impurity D	: NMT	0.15	%	Impurity E	: NMT	0.3	%	Impurity G	: NMT	0.3	%	Unspecified impurity	: NMT	0.10	%	Total impurities	: NMT	1.5	%	ND ND ND ND ND ND 0.12 % ND ND 0.12 % 0.3 %
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Total impurities	: NMT	1.5	%																																							
<b>LOSS ON DRYING</b>	Maximum 0.5 %	0.3 %																																								
<b>ASSAY (By UV)</b>	Not Less Than 97.0 % - 103.0 % (Dried basis)	99.4 %																																								
<b>A) RESIDUAL SOLVENTS</b>	<table style="width: 100%; border-collapse: collapse;"> <tr><td>Methanol</td><td>: NMT</td><td>3000</td><td>ppm</td></tr> <tr><td>Acetone</td><td>: NMT</td><td>5000</td><td>ppm</td></tr> <tr><td>Methylene chloride</td><td>: NMT</td><td>600</td><td>ppm</td></tr> <tr><td>Ethyl acetate</td><td>: NMT</td><td>5000</td><td>ppm</td></tr> </table>	Methanol	: NMT	3000	ppm	Acetone	: NMT	5000	ppm	Methylene chloride	: NMT	600	ppm	Ethyl acetate	: NMT	5000	ppm	Below quantification limit 1029 ppm ND ND																								
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<b>B) PARTICLE SIZE (BY VOLUME BASIS)</b>	99 % < 20 $\mu$ m	8.23 $\mu$ m																																								

REMARKS: The Batch CONFORMS as per EP-11.4 Specifications.

PREPARED BY:  
NAME: PRATIK PATEL  
DESIGNATION: EXECUTIVE-QC  
DATE: 13/01/2025

CHECKED BY:  
NAME: HIRAL PATEL  
DESIGNATION: Dy.MANAGER-QC  
DATE: 13/01/2025

APPROVED BY:  
NAME: VINU PATEL  
DESIGNATION: SR. MANAGER-QA (DOC)  
DATE: 13/01/2025

QC/GENF-056.01.04

