

# CERTIFICATE OF ANALYSIS

(Certificate No. KMH002100-03)

Release Date: 08/03/2025

Re-test Date: 07/03/2028

## HYDROCORTISONE ALDEHYDE IMPURITY (E-ISOMER)

### Identification

**Chemical Name :**  
(11,17E)-11,20-Dihydroxy-3-oxo-pregna-4,17(20)-dien-21-al

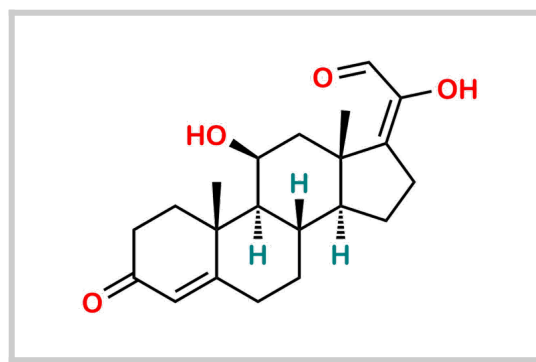
**Alt. Name :** Hydrocortisone E-isomer of Enol Aldehyde ; (E)-17-Deoxyaldehyde Derivative

**CAT No. :** KMH002100

**CAS No. :** 105562-12-7

**Molecular Formula :** C<sub>21</sub>H<sub>28</sub>O<sub>4</sub>

**Molecular Weight :** 344.5



### Analytical Information

**Batch No. :** H002100-091-256

**Description :** White Solid

**HPLC Purity :** 98.97 %

**Weight Loss By TGA :** 0.71 %

**% Potency :** 98.27 %

**Solubility :** ACN : Water (1:1)

**Mass :** Confirm

**IR :** Confirm

**<sup>1</sup>H NMR :** Confirm

**<sup>13</sup>C NMR :** Confirm

### Additional Information

**Long Term Storage :** Store at -20 deg. C for long term storage

**Shipping Condition :** Product is stable to be Shipped at Room Temperature

**% Potency =**  $[100 - 0.71(\text{Weight Loss By TGA})] \times [98.97(\text{HPLC Purity})]/100 = 98.27 \%$

**Recommendation :** Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		13/03/2025
Reviewed & Approved By	Quality Control	Jatin Patel		13/03/2025

**Attachments :** COA, HPLC, MASS, <sup>1</sup>H NMR, <sup>13</sup>C NMR, IR and TGA