

# CERTIFICATE OF ANALYSIS

(Certificate No. KMH002100-04)

Release Date: 11/02/2026

Re-test Date: 10/02/2029

## Hydrocortisone Aldehyde Impurity (E-isomer)

### Identification

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

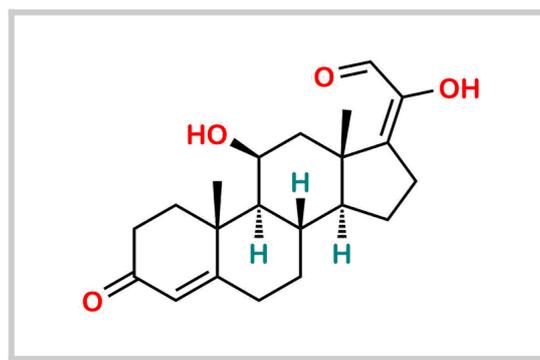
**Alt. Name :** Hydrocortisone E-isomer of Enol Aldehyde ; (E)-17-Deoxyaldehyde Derivative

**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. :** H002100-114-142

**Description :** White Solid

**HPLC Purity :** 99.27 %

**Weight Loss By TGA :** 1.18 %

**% Potency :** 98.1 %

**Solubility :** ACN : Water

**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 =**  $[100 - 1.18(\text{Weight Loss By TGA})] \times [99.27(\text{HPLC Purity})]/100 = 98.1 \%$

**Recommendation :** Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		13/02/2026
Reviewed & Approved By	Quality Control	Jatin Patel		13/02/2026

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