

# Hydrocortisone

Cell Culture Tested

**Product Code: TC344**

## Product Description :

Molecular weight: 362.46

Molecular formula :  $C_{21}H_{30}O_5$

CAS No: 50-23-7

Synonym : 11 $\beta$ ,17 $\alpha$ ,21-Trihydroxypregn-4-ene-3,20-dione,  
17-Hydroxycorticosterone, Cortisol, Kendall's compound

Hydrocortisone is a glucocorticoid steroid hormone produced by adrenal cortex. It has three times the anti-inflammatory potency of corticosterone but much lower  $Na^+$  retention potency.

Hydrocortisone is commonly use in epithelial and endothelial culture. Glucocorticoids are known to modulate various cellular functions such as cell proliferation, metabolism, glycosylation and secretion of many proteins.

## Direction :

Suspend required amount in Ethanol. Mix to dissolve.

Filter sterilized by 0.22micron filter.

Aliquot into smaller working aliquots.

## Quality Control:

### Appearance

White to off-white powder.

### Solubility

Clear colorless to very faint yellow solution at 50mg in 1ml of Chloroform: Ethanol (1:1) solution.

### Assay

98%

### Cell Culture Test

Passes

## Storage and Shelf Life:

Store at 10°-30°C away from bright light.

Store working aliquots at -20°C.

Shelf life is 36 months.

Use before expiry date given on the product label.

Note : Avoid repeated freeze / thaw.

## Disclaimer :

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