



武汉泽山成生物医药有限公司
Wuhan ZeShanCheng Biomedical Technology Co., Ltd.

CERTIFICATE OF ANALYSIS

Product name: Hydrocortisone
CAS No: 50-23-7 Ref.standard USP 37
Batch Number: NF-20181223 Manu. Date: Dec. 23, 2018
Batch Size: 230kg Expiration Date: Dec. 22, 2020
Net Weight: 100g Report Date Dec. 23, 2018
TEST ITEM SPECIFICATION RESULTS

Appearance white or almost white crystalline powder Confirm
Identification

(A) Complies by IR

(B) Complies by $UV \leq 2.5\%$

Confirm

1.1%

Specific rotation $+150^\circ \sim +156^\circ$ $+153.1^\circ$

Loss on drying $\leq 0.5\%$ 0.1%

Residue on ignition $\leq 0.5\%$ 0.05%

Related substances

Individual impurity $\leq 0.5\%$

Total impurities $\leq 2.0\%$

0.34%

0.58%

Residual Solvents

1,2-DICHLOROETHANE $\leq 5\text{ppm}$

METHANOL $\leq 3000\text{ppm}$

ETHANOL $\leq 5000\text{ppm}$

BUTYL ACETATE $\leq 5000\text{ppm}$

Undetected

85ppm

Undetected

Undetected

Assay

97.0% -102.0% of $C_{21}H_{30}O_5$

Calculated on dried basis

98.4%

Color According to the measured value 0.034

Conclusion Meet the specification according to USP37

Tested by: Mr. Fangchao Yang

Approved by: Mr. Cheng Niu