

## YANGZHOU LIBERTY PHARMACEURIGAL CO., LTD

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CERTIFICATE OF ANALYSIS / E

WE, YANGZHOU LIBERTY PHARMACEUTICAL CO., LTD., AS AN ANUTACTURED OF DOXYCYCLINE HYCLATE HEREBY CERTIFY THAT THIS BATCH HAS BEEN MANUFACTOR BY HIS IN FUTL COMPLIANCE WITH EU-GMP REQUIREMENTS AND GMP REQUIREMENTS OF THE LOCAL REGULATORY AUTHORITY.

| REPORT NO.:5001210408 | REPORT | NO:500 | 12104081 |
|-----------------------|--------|--------|----------|
|-----------------------|--------|--------|----------|

SOPOC-FP001-14

| SAMPLE NAME  | DOXYCYCLINE HYCLATE |                    |                      |  |  |
|--|---------------------|--------------------|----------------------|--|--|
| BATCH NO. YD210401081                              |                     | TEST REQUEST UNIT  | DOXYCYCLINE WORKSHOP |  |  |
| SPECIFICATION                                      | PHARMACEUTICAL      | MANUFACTURING DATE |                      |  |  |
| BATCH SIZE 1230.3kg COS NO. R1-CEP 2000-165-Rev 06 |                     | REPORT DATE        | 2021.04.13           |  |  |
|  |                     | RETEST DATE        | 2025.04.10           |  |  |
| I. ANALYTICAL METHOD:                              |                     | EP10.0             |                      |  |  |

## I. ANALYTICAL METHOD:

PERM

## IL RESULTS OF ANALYTICAL ITEM:

| ILEM   | SPECIFICATIONS   | RESULT               |
|--|--|----------------------|
| APPEARANCE:  | YELLOW, CRYSTALLINE POWDER HYGROSCOPIC.                  | COMPLIES             |
| IDENTIFICATION:  | A: EXAMINE THE CHROMATOGRAMS<br>OBTAINED IN THE ASSAY    | COMPLIES             |
| 2000   | B: REACTION WITH SULPHURIC ACID C: REACTION OF CHLORIDES | COMPLIES<br>COMPLIES |
| PH:  | 2.0 TO 3.0   | 2.4                  |
| ABSORBANCE (490nm):  | NOT MORE THAN 0.07                                       | 0.02                 |
| RELATED SUBSTANCES:  |  |                      |
| Impurity A (6-epidoxycycline):   | NOT MORE THAN 2,0%                                       | 1.20%                |
| Impurity B (metacycline):  | NOT MORE THAN 0.5%                                       | NOT DETECTED         |
| Impurity C (4-epidoxycycline):   | NOT MORE THAN 0.2%                                       | 0.06%                |
| Impurity F (2-acetyl-2-decarbamoyldoxycycline):  | NOT MORE THAN 1.2%                                       | 0.88%                |
| Unspecified impurities:  | NOT MORE THAN 0.10%                                      | <0.05%               |
| Total impurities:  | NOT MORE THAN 3.0%                                       | 2.14%                |
| ETHANOL:   | 4.3% TO 6.0%   | 4.9%                 |
| WATER:   | 1.4% TO 2.8%   | 2.0%                 |
| SULFATED ASH:  | NOT MORE THAN 0.4%                                       | 0.1%                 |
| RELATED SUBSTANCES BY GC:  |  | Transaction and      |
| Chloromethane:   | NOT MORE THAN 300 ppm                                    | 70ppm                |
| Chloroethane:  | NOT MORE THAN 600 ppm                                    | 95ppm                |
| ASSAY: CONTENT OF C <sub>22</sub> H <sub>25</sub> CIN <sub>2</sub> O <sub>8</sub> (ANHYDROUS AND ETHANOL-FREE SUBSTANCE) | 95.0% TO 102.0%  | 97.3%                |

III; RESULT AND CONCLUSION:

PASS

| APPROVED BY: | <i>₽</i> ≥ | DRAFTED BY :_ | 1300       | CHECKED BY: | br         |
|--------------|------------|---------------|------------|-------------|------------|
| 7            | 021-01/13  |               | 2021-04-14 |             | 751.00.114 |