

## CERTIFICATE OF ANALYSIS

|                                  |                                     |  |
|----------------------------------|-------------------------------------|--|
| PRODUCT: <u>TITANIUM DIOXIDE</u> | CRYSTAL FORM: <u>ANATASE</u>        |  |
| BATCH NO.: <u>2305201</u>        | QUANTITY: <u>20000 KGS</u>          |  |
| MFG. DATE: <u>MAY.03,2023</u>    | PACKAGING: <u>25 KGS/ PAPER BAG</u> |  |
| EXP. DATE: <u>MAY.03 ,2028</u>   | REPORT. DATE: <u>MAY.09,2023</u>    |  |
| STANDARDS: <u>USP 43-NF 38</u>   | TYPE: <u>HongYuan 3100</u>          |  |

| TEST                                                                                                                  | SPECIFICATIONS                                                               | TEST RESULTS                                              |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------|
| CHARACTERISTICS                                                                                                       | A WHITE OR ALMOST WHITE<br>ODORLESS POWDER                                   | WHITE, ODORLESS POWDER                                    |
| IDENTIFICATION                                                                                                        | ORANGE-RED COLOR WITH H <sub>2</sub> O <sub>2</sub>                          | CONFORMS                                                  |
| WHITENESS                                                                                                             | 98% MIN                                                                      | 98.8%                                                     |
| LOSS ON DRYING(105℃, 3 HOURS)                                                                                         | 0.5% MAX                                                                     | 0.35%                                                     |
| LOSS ON IGNITION(800℃)                                                                                                | 0.5% MAX                                                                     | 0.30%                                                     |
| WATER SOLUBLE MATTER                                                                                                  | 0.25% MAX                                                                    | 0.18%                                                     |
| MATTERS SOLUBLE IN HCL                                                                                                | 0.5% MAX                                                                     | 0.27%                                                     |
| LEAD (0.5N HCl SOLUBLE)                                                                                               | 10 PPM MAX                                                                   | 2.13                                                      |
| ARSENIC (0.5N HCl SOLUBLE)                                                                                            | 1 PPM MAX                                                                    | 0.61                                                      |
| ANTIMONY(0.5N HCl SOLUBLE)                                                                                            | 2 PPM MAX                                                                    | 0.54                                                      |
| MERCURY (0.5N HCl SOLUBLE)                                                                                            | 1 PPM MAX                                                                    | <0.01                                                     |
| CADMIUM (0.5N HCl SOLUBLE)                                                                                            | 1 PPM MAX                                                                    | <0.01                                                     |
| IRON                                                                                                                  | 200PPM MAX                                                                   | 23.91                                                     |
| AL <sub>2</sub> O <sub>3</sub> AND/OR SiO <sub>2</sub>                                                                | 2.0% MAX                                                                     | <0.02%                                                    |
| ASSAY (TiO <sub>2</sub> )                                                                                             | 99.0~100.5%                                                                  | 99.03%                                                    |
| <b>MICROBIOLOGY TEST</b><br>TOTAL AEROBIC COUNT<br>YEASTS & MOULDS                                                    | 500 CFU/G MAX<br>500 CFU/G MAX                                               | CONFORMS<br>CONFORMS                                      |
| SPECIFIED MICROBIAL TEST<br>E.COLI<br>PSEUDOMONAS AERUGINOSA<br>SALMONELLA<br>STAPHYLOCOCCUS AUREUS<br>C. PERFRINGENS | NOT DETECTED<br>NOT DETECTED<br>NOT DETECTED<br>NOT DETECTED<br>NOT DETECTED | CONFORMS<br>CONFORMS<br>CONFORMS<br>CONFORMS<br>CONFORMS  |
| <b>ORGANIC VOLATILE IMPURITIES</b><br>CHLOROFORM<br>1,4-DIOXANE<br>DICHLOROMETHANE<br>TRICHLOROETHYLENE               | 60 µG PER G MAX<br>380 µG PER G MAX<br>600 µG PER G MAX<br>80 µG PER G MAX   | <1 µG PER G<br><10 µG PER G<br><1 µG PER G<br><1 µG PER G |
| CONCLUSION                                                                                                            | COMPLIES WITH USP 43-NF 38                                                   |                                                           |

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APPROVED BY: ZHOU LING



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