



**ACROSS BIOTECH**  
MAKE A DIFFERENCE

## Certificate of Analysis

|                 |             |                    |            |
|-----------------|-------------|--------------------|------------|
| <b>Name</b>     | 5-HTP       | <b>CAS No.</b>     | 4350-09-8  |
| <b>Package</b>  | 25kg/drum   | <b>Test Method</b> | In house   |
| <b>Lot No.</b>  | HTP25042802 | <b>Quantity</b>    | 200kg      |
| <b>MFG Date</b> | 2025/04/28  | <b>EXP Date</b>    | 2028/04/27 |

| Items                                    | Specifications                                                           | Results  | Method              |
|------------------------------------------|--------------------------------------------------------------------------|----------|---------------------|
| Appearance                               | White to Off-white Powder                                                | Complies | Visual              |
| Solubility 10mg/ml                       | Clear and transparent, without obvious insolubles.                       | Complies | Enterprise Standard |
| IR Identification                        | Spectrum must conform                                                    | Complies | IR                  |
| Particle Size                            | 98% through 80 mesh                                                      | Complies | CP2020              |
| Loss on Drying%                          | NMT 0.5                                                                  | 0.04     | USP <731>           |
| Residue on Ignition%                     | NMT 0.3                                                                  | 0.08     | USP <281>           |
| pH                                       | 4.5~6.5                                                                  | 6.01     | USP <791>           |
| Optical Rotation                         | -30.0 °~-35.0°                                                           | -32.24°  | USP <781>           |
| Heavy Metals ppm                         | NMT 10                                                                   | Complies | CP2020 <0821>       |
| Pb ppm                                   | NMT 0.5                                                                  | Complies | ICP-MS              |
| As ppm                                   | NMT 0.5                                                                  | Complies | ICP-MS              |
| Cd ppm                                   | NMT 0.1                                                                  | Complies | ICP-MS              |
| Hg ppm                                   | NMT 0.1                                                                  | Complies | ICP-MS              |
| Assay%                                   | NLT 99.0                                                                 | 99.42    | HPLC                |
| DBP ppm                                  | NMT 0.3                                                                  | Conforms | LC-MS-MS            |
| Total Impurities%                        | NMT 0.3                                                                  | 0.08     | HPLC                |
| Peak X                                   | Complies                                                                 | Complies | HPLC                |
| Biobased Carbon%                         | —                                                                        | 100      | AMS                 |
| <b>Microbiological Test</b>              |                                                                          |          |                     |
| Total Plate Count CFU/g                  | NMT 1000                                                                 | <1       | CP2020 <1105>       |
| Yeast & Mold CFU/g                       | NMT 100                                                                  | <1       | CP2020 <1105>       |
| E.Coli, Salmonella and Staphylococcus /g | Absent /10                                                               | ND       | CP2020 <1106>       |
| Coliform MPN/g                           | NMT 0.92                                                                 | <0.3     | GB4789.3-2016       |
| Conclusion                               | This product complies with enterprise standard.                          |          |                     |
| Storage                                  | Airtight and dry storage. Stay away from bright lights and heat sources. |          |                     |
| Remarks                                  | *Non-Irradiation *Non ETO Treatment *Non Excipients *GMO Free            |          |                     |

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