

## Certificate of Analysis

|              |                                |                  |          |
|--------------|--------------------------------|------------------|----------|
| Product Name | Xanthan Gum Food Grade 200Mesh |                  |          |
| Batch Number | YG20210524                     | Manufacture Date | 20210524 |
| Quantity     | 4000kg                         | Analysis Date    | 20210527 |
| Origin       | China                          | Expiry Date      | 20230523 |

| ITEMS                           | SPECIFICATION                          | RESULTS |
|---------------------------------|----------------------------------------|---------|
| Assay                           | 91-108%                                | 99.9%   |
| <b>Physical &amp; Chemical</b>  |                                        |         |
| Appearance                      | White to cream colored powder          | confirm |
| Solubility                      | Soluble in water. Insoluble in ethanol | confirm |
| Viscosity 1% solution in 1% KCL | 1200–1600cps                           | 1450cps |
| PH 1% solution                  | 6.0–8.0                                | 6.52    |
| Loss on drying                  | max 15%                                | 10.79%  |
| Ash                             | max 13%                                | 6.53%   |
| Particle size                   | 95% pass through 200 mesh              | 100%    |
| V1/V2                           | 1.02–1.45                              | 1.05    |
| Nitrogen                        | max.1.5%                               | <1.5%   |
| Pyruvic acid                    | min 1.5%                               | 3.5     |
| <b>Heavy metals</b>             |                                        |         |
| Heavy metal                     | max 20ppm                              | confirm |
| Lead                            | max 2ppm                               | confirm |
| Arsenic                         | max 3ppm                               | confirm |
| <b>Microbiological</b>          |                                        |         |
| Total plate count               | not more than 2000 cfu/g               | 50      |
| Yeast/mould                     | not more than 100 cfu/g                | confirm |
| E.coli                          | absent /10g                            | confirm |
| Salmonella                      | absent /25g                            | confirm |
| Ethanol and propan-2-ol         | Max.500ppm                             | 138ppm  |
| Xanthomonas compestris          | Viable cells absent in 1 g             | confirm |