



# XI'AN JUNYUAN BIO-TECH CO.,LTD

JUNYUAN TEL:+86-29-86106815 EMAIL:postmaster@junyuanbio.com WEB:www.junyuanbio.com

## Certificate of Analysis---Phenol red

|                     |               |                      |                     |
|---------------------|---------------|----------------------|---------------------|
| <b>Product Name</b> | Phenol red    | <b>Batch No</b>      | FH10401             |
| <b>Quantity</b>     | 100KGS        | <b>Analysis Date</b> | Dec.1th, 2020       |
| <b>Mfg. Date</b>    | Dec.1th, 2020 | <b>Exp. Date</b>     | Dec.1th, 2022       |
| <b>Package</b>      | 25KG/Drum     | <b>Standard</b>      | Enterprise Standard |

| Items  | Standard  | Result             |
|--|---|--------------------|
| PH ranges                                      | 1.2 (orange)~3.0(yellow)<br>6.5 (brownish yellow) ~8.0 (Purple red) | Conform<br>Conform |
| Maximum absorption wavelength (nm)             |   |                    |
| $\lambda_1$ (PH1.2)                            | 503~506   | 503                |
| $\lambda_2$ (PH 3.0)                           | 430~435   | 435                |
| $\lambda_3$ (PH 6.5)                           | 430~435   | 430                |
| $\lambda_4$ (PH 8.0)                           | 557~560   | 558                |
| Mass absorption coefficient (L/cm·g)           |   |                    |
| $\alpha_1$ ( $\lambda_1$ , PH1.2, dry sample)  | 110~123   | 112.5              |
| $\alpha_2$ ( $\lambda_2$ , PH 3.0, dry sample) | 60~68   | 63.2               |
| $\alpha_3$ ( $\lambda_3$ , PH 6.5, dry sample) | 62~72   | 65.5               |
| $\alpha_4$ ( $\lambda_4$ , PH 8.0, dry sample) | 115~130   | 115.0              |
| Alkali dissolution test                        | Pass  | Pass               |
| Loss on drying $\leq$                          | 1.0%  | 0.5%               |
| Ignition residue(Sulfate meter) $\leq$         | 0.2%  | Conform            |
| Conclusion                                     | The product conforms to the standard.                               |                    |

QC: MANAGER:NianChen

INSPECTOR:FeiDeng

ANALYST: XiLi