



双 创 国 际 有 限 公 司  
TWIN INTERNATIONAL CO., LIMITED

## Certificate of Analysis

### Paracetamol

CAS No.:103-90-2

EINECS No.: 203-157-5

MFG. Date:2019-08-28

EXP. Date:2023-08-27

Batch No.:201908113A

|                                 |                                                                                             |         |                  |
|---------------------------------|---------------------------------------------------------------------------------------------|---------|------------------|
| Product name                    | Paracetamol                                                                                 |         |                  |
| Shelf life                      | four years                                                                                  | Packing | 25kg /bag        |
| Standard                        | BP2013/USP35                                                                                |         |                  |
| Contents                        | Specification                                                                               |         | Results          |
| Characters                      | White crystalline powder,sparingly soluble in water,freely soluble in alcohol,very slightly |         | Conforms         |
| Identification                  | A:Melting range168-172℃                                                                     |         | 169.2-170.4℃     |
|                                 | B.C.D.E Positive                                                                            |         | B.C.D.E Positive |
| Related substance               | Impurity J (4-chloracetanilide)≤ 10ppm                                                      |         | <10ppm           |
|                                 | Impurity K (4-aminophenol)≤ 50ppm                                                           |         | <50ppm           |
|                                 | Impurity F (4-nitrophenol)≤ 0.05%                                                           |         | <0.05%           |
|                                 | Any other impurity≤ 0.05%                                                                   |         | <0.05%           |
|                                 | Total of other impurity≤ 0.1%                                                               |         | <0.1%            |
| Chloride                        | ≤0.014%                                                                                     |         | <0.014%          |
| Sulphated ash                   | ≤0.1%                                                                                       |         | 0.04%            |
| Heavy metals                    | ≤0.001%                                                                                     |         | <0.001%          |
| Free p-Aminophenol              | ≤0.005%                                                                                     |         | <0.005%          |
| Chloracetanilide                | ≤0.001%                                                                                     |         | <0.001%          |
| Readily carbonizable substances | Complies                                                                                    |         | Complies         |
| Residual solvent                | Residual content of acetic acid≤0.5%                                                        |         | <0.16%           |

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|                                                                   |              |            |      |             |      |
|-------------------------------------------------------------------|--------------|------------|------|-------------|------|
| Organic volatile impurities                                       | Complies     |            |      | Complies    |      |
| Loss on drying                                                    | ≤0.5%        |            |      | 0.06%       |      |
| Residue on ignition                                               | ≤0.1%        |            |      | 0.03%       |      |
| Assay                                                             | 99.0%-101.0% |            |      | 99.9%       |      |
| Conclusion: It complies with the requirements of the BP2013/USP35 |              |            |      |             |      |
| Approved by                                                       | zhang        | Checked by | wang | Analyzed by | Twin |