

## CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

|                   |                          |
|-------------------|--------------------------|
| Product Name      | Direct Yellow 142        |
| C.A.S. Number     | Not applicable           |
| Molecular Formula | —                        |
| Molecular Weight  | —                        |
| Grade / Standard  | ≥80% Dye Content         |
| Physical Form     | Yellow powder            |
| Product Category  | Dyes & Dye Intermediates |
| Country of Origin | India                    |

### ANALYTICAL RESULTS

| S. No. | Test Parameter               | Specification                   | Result           | Method                      |
|--------|------------------------------|---------------------------------|------------------|-----------------------------|
| 1      | Description                  | Yellow powder                   | Complies         | Visual                      |
| 2      | Solubility                   | As per specification            | Complies         | Visual / Monograph          |
| 3      | Assay                        | Not less than 80.0 % w/w        | 80.45            | Spectrophotometry           |
| 4      | Shade                        | Matching approved standard      | Matches standard | Visual / Spectrophotometric |
| 5      | Strength vs. Standard        | 100 ± 3 %                       | 100.6 %          | Spectrophotometry           |
| 6      | Moisture                     | Not more than 5.0 % w/w         | 2.43             | Gravimetry                  |
| 7      | Matter Insoluble in Water    | Not more than 1.0 % w/w         | 0.235            | Gravimetry                  |
| 8      | Solubility in Water at 60 °C | Not less than 80 g/L            | 100 g/L          | In-house method             |
| 9      | Light Fastness (ISO 105-B02) | Grade 5 – 6 minimum             | Grade 6          | ISO 105-B02                 |
| 10     | Wash Fastness (ISO 105-C06)  | Grade 4 – 5 minimum             | Grade 5          | ISO 105-C06                 |
| 11     | Structure                    | Conforms to reference structure | Complies         | FTIR / NMR                  |

#### Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

#### Checked and Approved by

**Prem Panchal**  
Quality Assurance  
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.