

Certificate of Analysis

Date of Testing: 2022-06-14 14:35:09
Date of Next Testing: 2026-06-13 14:35:09
Product Name: **Direct Black 38**
CAS Number: 1937-37-7
Specifications & Purity: Dye content, ≥45 %
Lot #: D2301840
SKU #: **D118564**
Analysis: **099292**

| Parameter | Limit Values | Result |
|--|----------------------------|----------------------------|
| Absorption Ratio P-15/P+1 | 0.97-1 | 0.98 |
| Dye Content | ≥45 (%) | 46.20 % |
| Appearance (D118564) | Dark brown or black powder | Dark brown or black powder |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Solubility, Dark Green to Black, 5 mg + 5 mL, H ₂ O | pass | Pass |



John Su
QA & QC Manager