

Shanghai Aladdin Biochemical Technology Co., LTD  
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## Certificate of Analysis

Date of Testing: 2026-03-26 10:20:26  
Date of Next Testing: 2030-03-25 10:20:26  
Product Name: **Direct Black 38**  
CAS Number: 1937-37-7  
Specifications & Purity: Dye content, ≥45 %  
Lot #: H1803112  
SKU #: **D118564**  
Version: **0**  
Analysis #: **677557**  
Storage Temperature: Room temperature

| Parameter                                                      | Limit Values               | Result                     |
|----------------------------------------------------------------|----------------------------|----------------------------|
| Absorption Ratio P-15/P+1                                      | 0.97-1                     | 0.98000                    |
| Dye Content                                                    | ≥45 (%)                    | 46.12000 %                 |
| 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 <sub>2</sub> O | pass                       | Pass                       |

