

## Certificate of Analysis

Date of Testing: 2023-04-20 14:37:32  
Date of Next Testing: 2026-04-19 14:37:32  
Product Name: **2,9-Bis(3-(dimethylamino)propyl)anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetraone**  
CAS Number: 117901-97-0  
Specifications & Purity: 98%  
Lot #: D2308931  
SKU #: **D290346**  
Analysis: **191432**

| Parameter                   | Limit Values                                          | Result                                                |
|-----------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Purity(with Total Nitrogen) | 98-102.5 (%)                                          | 99.63 %                                               |
| NMR Spectrum 1H             | Conforms to Structure                                 | Conforms to Structure                                 |
| Appearance(D290346)         | Light yellow to Amber to Dark green powder to crystal | Light yellow to Amber to Dark green powder to crystal |



John Su  
QA & QC Manager