

## Certificate of Analysis

Date of Testing: 2023-06-30 15:53:55  
Date of Next Testing: 2026-06-29 15:53:55  
Product Name: **Esculin**  
CAS Number: 66778-17-4  
Specifications & Purity: suitable for microbiology  
Lot #: F2328995  
SKU #: **E433254**  
**Analysis:** **240098**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	99.82 %
Spec.rotation(a20/D 2%dioxan/water (1:1))(calc.on anhydrous substance)	-87~-84 (°)	-85.57100°
Heavy metals(as Pb)	0-0.004 (%)	0.00 %
Sulfated Ash	0-0.1 (%)	0.00000 %
Fraxin(HPLC)	0-0.5 (%)	0.01000 %
Water by Karl Fischer	6.5-8 (%)	7.89 %
suitability for microbiology	corresponds	corresponds
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager