

Certificate of Analysis

Date of Testing: 2024-09-27 17:12:00
Date of Next Testing: 2028-09-26 17:12:00
Product Name: **Esculin sesquihydrate**
CAS Number: 66778-17-4
Specifications & Purity: 98%
Lot #: I2426192
SKU #: **E103661**
Version: **0**
Analysis #: **411970**
Storage Temperature: Protected from light

Parameter	Limit Values	Result
Water by Karl Fischer	6.5-8.5 (%)	7.19%
Purity(HPLC)	98-100 (%)	99.12000%
Specific Rotation $[\alpha]_{20/D}(c=2.4 \text{ in } 50\% \text{ Dioxane})(\text{calcd. on anh})$	-88--84 (°)	-84.20°
Purity(Neutralization titration)(calcd. on anh.substance)	97.5-102.5 (%)	100.20%
Appearance (E103661)	White to off-white solid	White to off-white solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in hot H ₂ O	almost transparency	almost transparency



John Su
QA & QC Manager