

Certificate of Analysis

Date of Testing: 2024-12-04 17:10:19
Date of Next Testing: 2028-12-03 17:10:19
Product Name: **Esculin sesquihydrate**
CAS Number: 66778-17-4
Specifications & Purity: $\geq 98\%$
Lot #: L2403615
SKU #: **E103661**
Version: **0**
Analysis #: **439302**
Storage Temperature: Protected from light

Parameter	Limit Values	Result
Water by Karl Fischer	6.5-8.5 (%)	7.99%
Purity(HPLC)	98-100 (%)	99.31900%
Specific Rotation $[\alpha]_{20/D}(c=2.4 \text{ in } 50\% \text{ Dioxane})(\text{calcd. on anh})$	-88--84 ($^{\circ}$)	-84.20 $^{\circ}$
Purity(Neutralization titration)(calcd. on anh.substance)	97.5-102.5 (%)	100.51%
Appearance (E103661)	White to off-white solid	White to off-white solid
Solubility in hot H ₂ O	almost transparency	almost transparency
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager