

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-15 17:15:45  
Date of Next Testing: 2027-04-14 17:15:45  
Product Name: **Esculin sesquihydrate**  
CAS Number: 66778-17-4  
Specifications & Purity: 98%  
Lot #: D2310321  
SKU #: **E103661**  
**Analysis:** **062487**  
Storage Temperature: Protected from light

Parameter	Limit Values	Result
Water by Karl Fischer	6.5-8.5 (%)	6.62 %
Specific Rotation $[\alpha]_{20/D}(c=2.4 \text{ in } 50\% \text{ Dioxane})(\text{calcd. on anh})$	-88--84 (°)	-84.01 °
Purity(Neutralization titration)(calcd. on anh. substance)	97.5-102.5 (%)	99.89 %
Purity(HPLC)	98-100 (%)	99.78400 %
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 <sub>2</sub> O	almost transparency	almost transparency



John Su  
QA & QC Manager