

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-30 15:51:58  
Date of Next Testing: 2027-06-29 15:51:58  
Product Name: **Esculin sesquihydrate**  
CAS Number: 66778-17-4  
Specifications & Purity: 98%  
Lot #: F2327848  
SKU #: **E103661**  
**Analysis:** **230405**  
Storage Temperature: Protected from light

Parameter	Limit Values	Result
Water by Karl Fischer	6.5-8.5 (%)	7.10 %
Purity(HPLC)	98-100 (%)	99.27500 %
Specific Rotation [a] <sub>D</sub> (c=2.4 in 50% Dioxane)(calcd.on anh)	-88--84 (°)	-84.22 °
Purity(Neutralization titration)(calcd.on anh.substance)	97.5-102.5 (%)	99.69 %
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