

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-01-12 15:48:01
Date of Next Testing:	2027-01-11 15:48:01
Product Name:	<b>Esculin hydrate</b>
CAS Number:	531-75-9
Specifications & Purity:	98%
Lot #:	C1922108
SKU #	<b>E107333</b>
<b>Analysis:</b>	<b>177906</b>

Parameter	Limit Values	Result
Purity(Neutralization titration)(calcd.on anh.substance)	97.5-102.5 (%)	101.30 %
Specific Rotation [α] <sub>20</sub> /D(c=2.4 in 50% Dioxane)(calcd.on anh)	-88--84 (°)	-87.30 °
Water by Karl Fischer	0-10.5 (%)	7.77 %
Purity(HPLC)	98-100 (%)	99.20000 %
UV/Vis Absorbance(EmM, 335-336nm in EtOH, anhydrous basis)	13-13.5	13.30
Appearance (E107333)	White to Off-White Powder	White to Off-White Powder
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