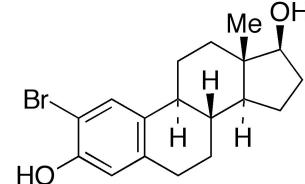


CERTIFICATE OF ANALYSIS

1. Identification

Catalogue Number B684970 Lot Number 3-PRN-14-3

Product Name
2-Bromo 17 β -Estradiol

StructureSynonyms

2-Bromo-estradiol; 2-Bromo-1,3,5(10)-estratriene-3,17 β -diol; 2-Bromo- β -estradiol; 2-Bromoestradiol; NSC 105460

CAS Number

15833-07-5

Solubility

DMSO (Slightly), Methanol (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula $C_{18}H_{23}BrO_2$ Source of Product

Synthetic

Long Term Storage Conditions

4°C, Light sensitive

Molecular Weight

351.28

Purity

>95%

2. Warnings

Light Sensitive

3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Pale Purple Solid	Off-White to Pale Purple Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 61.11, %H: 6.58
HPLC Purity	>95%	99.59% (210 nm)
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+105.5° (c = 0.2, Methanol)

Additional Information

N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed.

The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
			4/25/2023	4/23/2027

Henry Tieu
Product Quality Specialist

Toni Rantanen
Manager, Quality Assurance

Chanell Chu
Jr. Quality Assurance