

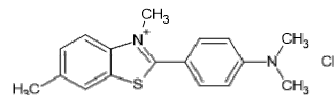
# Certificate of Analysis



## Product Identification

**Catalog number** HB7143  
**Compound name** Thioflavin T  
**Chemical name** 2-[4-(Dimethylamino)phenyl]-3,6-dimethylbenzothiazolium chloride  
**Batch number** E2572-1-1  
**Batch molecular formula** C<sub>17</sub>H<sub>19</sub>ClN<sub>2</sub>S·0.7H<sub>2</sub>O  
**Batch molecular weight** 349.49  
**Source** Synthetic

## Chemical Structure



Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 98.9%
NMR	<sup>1</sup> H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 40% PAW/BuOH shows one spot under uv	Meets specification: R <sub>f</sub> =0.6
Physical appearance	Yellow solid	Meets specification
Solubility	Soluble in water (10 mM) and in DMSO (5 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

10/05/2024

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.