MOLECULAR PROBES®

CERTIFICATE OF ANALYSIS

Catalog Number	S34857
Product Name	SYTOX® Blue dead cell stain *for flow cytometry* *1000 assays* *1 mM solution in DMSO*
CAS Number / Name	Trade Secret / Trade Secret
Molecular Weight	~1400
Appearance	yellow solution
Lot Number	1726540

	LOT DATA	SPECIFICATION
ABSORPTION		
Optical Density[1]	0.62 at 431 nm	0.62 ± 0.06 at 430 ± 3 nm
Absorption[2]		
Maximum	431 nm	430 ± 3 nm
Extinction	67000 $cm^{-1}M^{-1}$	62000 ± 5000 $cm^{-1}M^{-1}$
Fluorescence[3]		
Emission Maximum	471 nm	470 ± 4 nm
Result	meets specification	Em intensity increase ≈ 20X
HPLC		
Purity	99 % at 432 nm	≥ 95 % at 432 nm
NMR		
Result	meets specification	consistent with structure
MISCELLANEOUS INFORMATION		
Material Lot Number	1585473	n.a.

1. *Buffer: 10 mM Tris, 1 mM EDTA, pH 8.0 (100x dilution).*
2. *Solvent: Buffer, 10 mM TRIS, 1 mM EDTA (pH 8).*
3. *Solvent: Buffer, 10 mM TRIS, 1 mM EDTA (pH 8). Method: Response to nucleic acid.*

Rachel Smith, Ph.D., Quality Assurance

07-Aug-2015

Life Technologies Corporation, on behalf of its Invitrogen business, Molecular Probes® labeling and detection technologies, certifies on the date above that this is an accurate record of the analysis of the subject lot and that the data conform to the specifications in effect for this product at the time of analysis.

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