



Idaho Molecular

Now a subsidiary of Co-Diagnostics, Inc.



Fact Sheet

Catalog Number	CHEM-DYE-002
Product Name	Maverick Blue™ Nucleic Acid Stain
Appearance	yellow solution
Format	5 mM solution in DMSO
Qty	250 µL and other package sizes
Store at	-25°C to 0°C, shield from light

Maverick Blue Nucleic Acid Stain has very little to no fluorescence as a free dye, but once bound to double-stranded DNA, it can be excited by blue light and emits strong fluorescence. Maverick Blue stain can be used in PCR, and flow cytometry applications. The dye is checked for purity by HPLC (at least 95 % at 432 nm), and for structure by NMR.

	Typical Product
Absorption Maximum (Extinction Coefficient)	430 ± 3 nm (84000 ± 5000 cm ⁻¹ M ⁻¹) * 444 ± 3 nm (49500 ± 2000 cm ⁻¹ M ⁻¹) **
Fluorescence Emission Maximum	471 ± 3 nm **

* Solvent: Buffer, 1 × TE (pH 8)

** Method: Response to nucleic acid, 10 µM Maverick Blue, 50 ng/µL human genomic DNA (dye:bp ratio of ~1:8)

Spectral Profile**

