



## Fact Sheet

<b>Catalog Number</b>	CHEM-DYE-002
<b>Product Name</b>	Maverick Blue <sup>®</sup> Nucleic Acid Stain
<b>Appearance</b>	yellow solution
<b>Format</b>	5 mM solution in TE buffer (10 mM Tris, 0.1 mM EDTA, pH 8)
<b>Qty</b>	250 $\mu$ L and other package sizes
<b>Store at</b>	-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
<b>Absorption</b> Maximum (Extinction Coefficient)	430 $\pm$ 3 nm (84000 $\pm$ 5000 $\text{cm}^{-1} \text{M}^{-1}$ ) * 444 $\pm$ 3 nm (49500 $\pm$ 2000 $\text{cm}^{-1} \text{M}^{-1}$ ) **
<b>Fluorescence</b> Emission Maximum	471 $\pm$ 3 nm **

\* Solvent: Buffer, 10 mM Tris, 0.1 mM EDTA, pH 8

\*\* Method: Response to nucleic acid, 10  $\mu$ M Maverick Blue stain, 50 ng/ $\mu$ L human genomic DNA (dye:bp ratio of ~1:8)

### Spectral Profile\*\*

