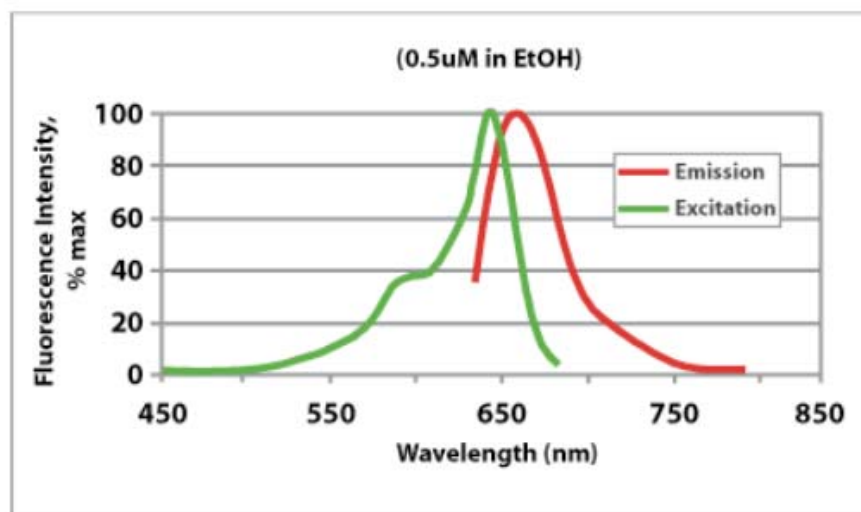


Catalog Number: DY-1002

Product Name: NeuroVue[®] Maroon Solid

Product Description: 1 mg of solid dye for Neuronal Tract Tracing Applications

Figure 1. Spectra of NeuroVue Maroon (ex max=647nm; em max=667nm)



Storage/Stability: Store in the dark at room temperature.

Dye Properties: Molecular Weight = 987

Extinction coefficient at 650nm in ethanol: $\sim 216,700 \text{ M}^{-1}\text{cm}^{-1}$

Solubility in DMF > 200mM

Solubility in DMSO > 200mM

Applications:

For tracing neuronal connections in animal tissues fixed in formaldehyde. Dye can be melted or dissolved in solvent and applied to metal/glass pins or pieces of hair which can then be used for application into small injection sites.

Additional Important Information

- 1) Diffusion times vary depending on the biological system under study and must be determined empirically.
- 2) Detection of Labeled Cells

Note: Due to its very long red fluorescence emission, most people cannot see NeuroVue Maroon emission by eye. Detection by camera will be more sensitive than with the unaided eye

a) Confocal microscopy.

Detection is most efficient using the 633nm or 647nm laser line for excitation and emission filter set at 650-710nm

b) Epifluorescence microscopy:

Standard filter sets potentially useful for NeuroVue Maroon excitation and emission include

- Cy5[®] (Chroma # 31023): exciter D640/20x , dichroic 660DCLP, emitter D680/30
- Cy5[®] longpass emission (Chroma #41024), exciter HQ620/60x , dichroic Q660LP, emitter HQ665LP

Although suboptimal, success has also been reported using a standard Texas Red filter set to detect NeuroVue Maroon.

NeuroVue[®] is a trademark of PTI Research, Inc. used under license. NeuroVue[®] products are sold under sublicense from PTI Research, Inc. US Patent numbers 7,462,347 B2.