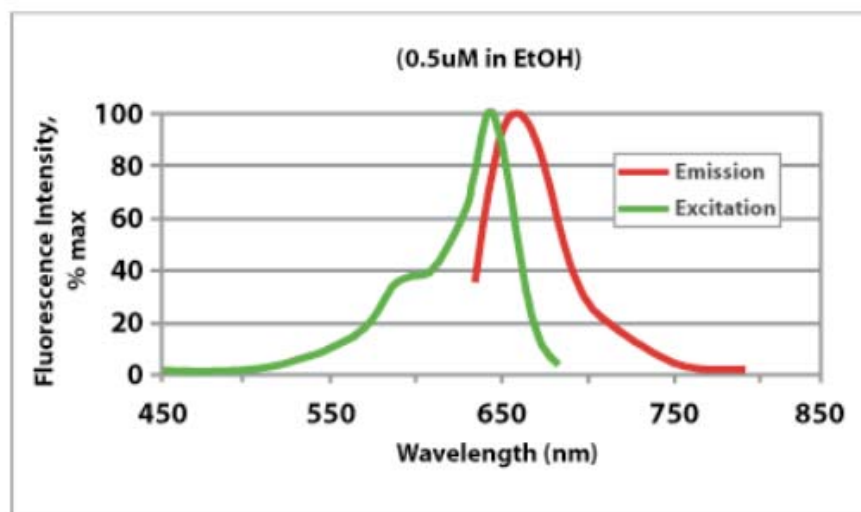


**Catalog Number:** DY-1002

**Product Name:** NeuroVue<sup>®</sup> 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<sup>®</sup> (Chroma # 31023): exciter D640/20x , dichroic 660DCLP, emitter D680/30
- Cy5<sup>®</sup> 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.

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