

## DATASHEET

### Cresyl Violet Solution (1%)

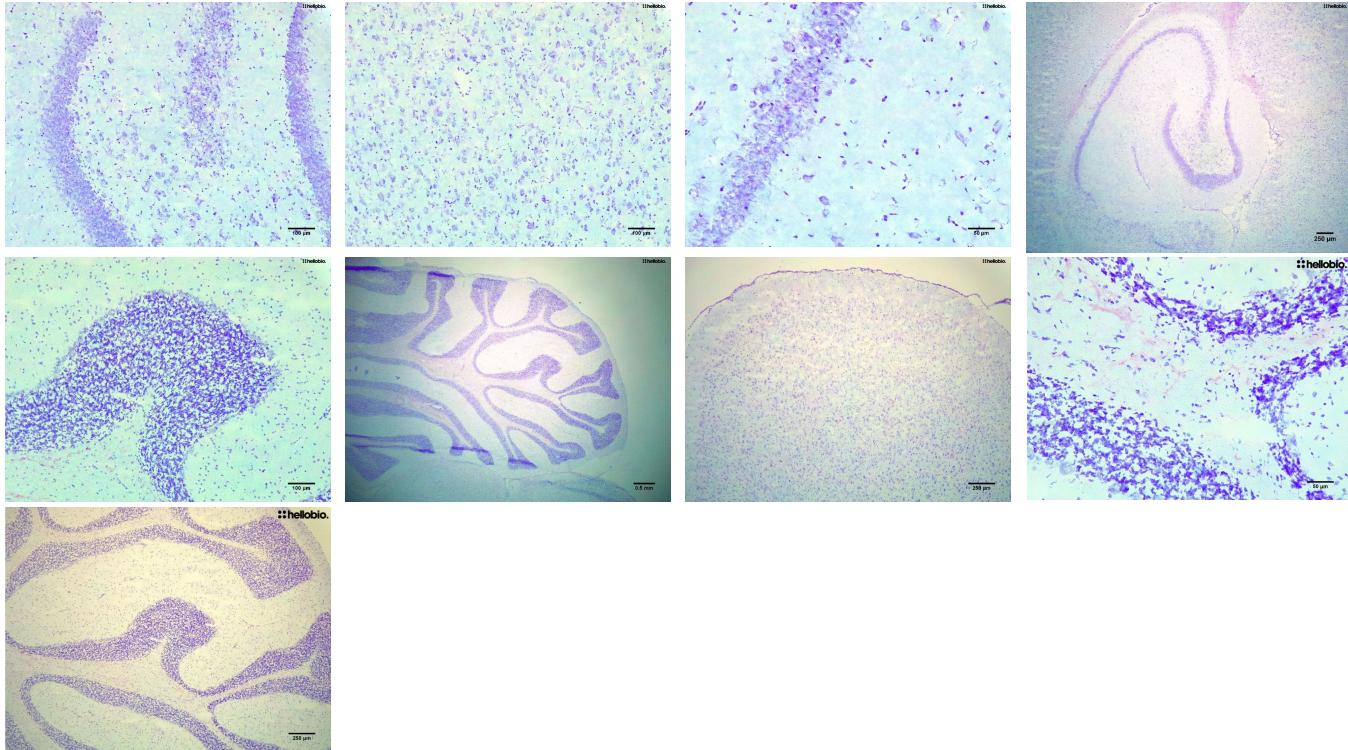
#### Product overview

<b>Name</b>	Cresyl Violet Solution (1%)
<b>Cat No</b>	HB5608
<b>Alternative names</b>	Cresyl Echt Violet Solution (0.1%), Cresyl Violet Nissl substance stain solution
<b>Biological description</b>	Selectively stains Nissl substance in neurons on formalin fixed, paraffin-embedded tissue. Commonly used for identifying the basic neuronal structure in brain and spinal cord tissue. Nissl granules stain purple/ violet while nuclei of neuroglia and endothelial cells are slightly bluer than Nissl granules (violet to dark blue).

**Control Tissue:** Cerebral Cortex

<b>Biological action</b>	Dyes & stains
<b>Description</b>	Stains Nissl substance in neurons on formalin fixed, paraffin-embedded tissue

#### Images



#### Biological Data

**Application notes**

**Protocol:**

Working Solutions: This stain may be diluted up to 1:10 with deionized water just before use.

1. Deparaffinize and hydrate sections to distilled water.
2. Apply Cresyl Violet Acetate solution (or your Cresyl Violet Acetate working solution) to tissue for 3-5 minutes
3. Quickly rinse in 1 change of distilled water.
4. Dehydrate rapidly in absolute alcohol. Please note that alcohol may remove the stain from tissue over time.
5. Clear in 3 or 4 changes of xylene/xylene substitute and
6. Mount with synthetic resin.

#### **#Protocol 1: Cresyl Violet staining of frozen brain sections**

- 10µm fresh frozen sections were cut on a cryostat then fixed in 10% neutral buffered formalin for 10 minutes
- Sections were washed 3 times in dH<sub>2</sub>O then incubated for 8 minutes in acidified cresyl violet solution (5 drops of 10% acetic acid in 30ml of cresyl violet solution)
- Sections were then differentiated in 96% alcohol briefly (acidified with 3 drops 10% acetic acid / 50ml alcohol) before being then washed in 100% alcohol and allowed to air dry
- Once dry, slides were incubated in xylene 3 times for 5 minutes and then mounted using DPX.

**Note:** If using paraffin embedded sections, deparaffinise the sections before hydrating into distilled water and then proceed with staining in Cresyl Violet solution

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## Solubility & Handling

### Storage instructions Important

Room temperature

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

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## References

### Cresyl violet: a red fluorescent Nissl stain.

Alvarez-Buylla A et al (1990) Journal of neuroscience methods 33

PubMedID

[2232864](#)

### Cresyl violet: a superior fluorescent lysosomal marker.

Ostrowski PP et al (2016) Traffic (Copenhagen, Denmark) 17

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### Cresyl violet: a rapid, simple, easily interpretable stain for detecting *Pneumocystis carinii* in sputum.

Moas CM et al (1989) Southern medical journal 82

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[2474858](#)