

Specification

**Toluidine Blue O (C.I. 52040)**

**A3842**

<b>Solubility:</b>	20 g/L (H <sub>2</sub> O)
<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A3842
<b>Product Name:</b>	Toluidine Blue O (C.I. 52040)
<b>Specifications:</b>	Assay: min. 85 % $\lambda_{\text{max.}}$ (H <sub>2</sub> O): 623 - 633 nm Identity (UV/VIS): passes test Loss on drying: max. 8 %
<b>WGK:</b>	3
<b>Storage:</b>	RT
<b>Molecular Formula:</b>	(C <sub>15</sub> H <sub>16</sub> ClN <sub>3</sub> S) <sub>2</sub> · ZnCl <sub>2</sub>
<b>M:</b>	747.96 g/mol
<b>CAS:</b>	92-31-9
<b>EINECS:</b>	202-146-2
<b>CS:</b>	32041300
<b>Comment</b>	Paraffin-embedded and frozen tissue sections were stained with different nuclear dyes. Nucleic acids isolated from these samples were amplified in PCR reactions. Staining of Paraffin-embedded section was carried out for 2 minutes in an aqueous 0.01 % Toluidine blue solution, while frozen samples were stained for 30 seconds in 0.1 % Toluidine blue (2). Toluidine blue will stain DNA blue-green while RNA is stained purple (1). The dye is soluble in water (3.82 g/100 ml).
<b>Bibliography</b>	(1)Feder, N. & Wolf, M.K. (1965) <i>J. Cell Biol.</i> <b>27</b> , 327-336 Metachromatic and Orthochromatic Staining by Toluidine blue of Nucleic Acids in Tissue Sections. (2)Ehrig, T. <i>et al.</i> (2001) <i>J. Mol. Diag.</i> <b>3</b> , 22-25 Quantitative Amplification of Genomic DNA from Histological Tissue Sections after Staining with Nucleic Dyes and Laser Capture Microdissection. (3)Sarli, G. <i>et al.</i> (1999) <i>Biotechnic &amp; Histochem.</i> <b>74</b> , 64-76 Evaluating Mitotic Activity in Canine and Feline Solid Tumors: Standardizing the Parameter.

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