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## Certificate of Analysis

**Product Description:** Toluidine Blue O\_  
**Catalog Number:** 152649\_  
**Lot:** Q6185\_

**Formula:** C<sub>15</sub>H<sub>16</sub>N<sub>3</sub>SCl  
**CAS #:** 92-31-9  
**Physical Description:** Black powder

**Formula Weight:** 305.8  
**Storage:** 15 - 30°C

Test	Specification	Results
Identity Test	Passes	Passes
UV/VIS: □ max (H <sub>2</sub> O)	630 ± 4 nm	631.0 nm

LOD= 6.54%

Solubility(0.1% dist.water): Clear, blue solution

Dye content ( by spectrophotometry):80%

Absorptivity (1%/1cm): 1468

Spectroscopy:

- Peak 633 nm

- Ratio 1.05 at 618/648 nm

- Density at peak: 0.752

Recommended Retest Date: 09/30/2019

03/14/2017 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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