# CERTIFICATE OF ANALYSIS

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|---|---|
| Product Description | METHYLENE BLUE |
| Product Number | M5781 |
| Lot Number | 13B5781001 |
| Molecular Weight | 373.9 |
| Formula | $C_{16}H_8ClN_3S•3H_2O$ |
| CAS Number | 7220-79-3 |
| Storage Temperature | Room Temperature |

**Physiochemical Specifications:**

| TEST | SPECIFICATION | RESULTS |
|---|---|---|
| Solubility | Soluble in Water @ 1 mg/mL | Passes |
| Physical Appearance | | |
| Color* | Under Development | 2144-10 Dark Green |
| Texture | Crystalline Powder to Crystals | Crystalline Powder |
| Solution Appearance | | |
| Color | Dark Blue | Dark Blue |
| Dye Content | Minimum 80.0% | 88.0% |

* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

The material described in this certificate was manufactured in the United States of America and is synthetic in nature. No animal- or plant-derived components were used in the manufacture of this product.

***Phyto*Technology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. *Phyto*Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

Recommended Shelf Life Date: February 2021

Gary Seckinger, Ph.D.

P*hyto*Technology Laboratories®
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***Created on 4 Feb 2013 CC***