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Certificate of Analysis

Product Description: Indigo Carmine_**Catalog Number:** 152638_**Lot:** 4705K_**Formula:** $C_{16}H_8N_2Na_2O_8S_2$ **CAS #:** 860-22-0**Physical Description:** Bluish-purple Powder**Formula Weight:** 466.35**Storage:** Room Temperature, protect from light

Test	Specification	Result
Identity Test	Passes	Passes
UV/Vis: □ max (water)	608 - 610 nm	Peak 610nm, ratio 1.00 @ 595/625

Dye Content: 96.0%

Loss on Drying: 3.8%

Visual Transition Interval: From pH 11.5 (blue) to pH 14.0 (yellow)

Aqueous solubility: 1 gm in 100 ml !@ 25°C

Subsidiary dyes, excluding disodium 3,3-dioxo 2, 2-bi-indolyldine-5,7 disulfonate: <0.50%

Dye Intermediates: #0.50%

Arsenic: 2.3 ppm

Lead: 0.00032%

Sulfur: 13.0-14.0 %

Mercury: 0.20 mg/kg

Cadmium: 0.23 mg/kg

Heavy Metals: # 40.00 mg/kg

09/02/2009 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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