



RICCA CHEMICAL COMPANY

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Certificate of Analysis

Bromophenol Blue Indicator, 0.1% (w/v) Aqueous Solution

Lot Number: 1910151

Product Number: 1353

Expiration Date: SEP 2011

Manufacture Date: 10/8/2009

Contains:

Name	CAS#	Grade
Bromophenol Blue, Sodium Salt, C19H9Br4NaO5S	62625-28-9	ACS
Water, Deionized, H2O	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, red, odorless	Passed Test
Suitability for Use	Characteristic Check	Yellow (pH < 3.0) - Green (pH 3.4 to 3.7) - Blue (pH >4.6)	Passed Test

Specification	Reference	Method Number
Bromophenol Blue Indicator Reagent Solution	ACS	
Bromophenol Blue Indicator Solution (1 g/L)	ASTM	D 3869 B
Bromophenol blue indicator solution, pH 3.7 indicator	APHA	2310 B
Bromophenol blue indicator	TAPPI	T 249 cm-85
Bromophenol blue, aqueous	TAPPI	T 610 sp-97

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
1353-4	24 months
1353-32	24 months
1353-16	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

LaNelle Ohlhausen
Quality Assurance

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."
To determine manufacturing site using lot number, visit www.riccachemical.com/AboutUs/lot.pdf.