



Certificate of Analysis

COA-ASD-628-L001
www.ausamics.com.au

Product Details

Product Name	Patent Blue V, Patent Blue V calcium salt (C.I. 42051)
Catalog No.	ASD-628
CAS No.	3536-49-0
C.I. No.	42051
Lot No.	PBV260301
Mfg. Date	March 2026
Retest Date	March 2028
Grade	High-Purity Biological Stain / Colorant Grade

Document Information

COA No.	COA-ASD-628-L001
Issue Date	March 2026
Issued By	AuSaMicS Quality Control
Test Ref.	In-house / Ph. Eur. / JECFA

Test Results & Analytical Data

Test Parameter	Specification	Method	Result	Status
Appearance	Dark blue to green crystalline powder; no visible clumping	Visual inspection	Conforms	PASS
Identity — UV-Vis (λ_{max})	635–645 nm (aqueous, pH 7 \pm 0.5)	UV-Vis spectrophotometry	641 nm	PASS
Dye Content (spectrophotometric)	High purity — lot-specific value; see below	Spectrophotometric assay (λ_{max})	See lot value	PASS
Solubility (20 mg/mL, water)	Complete dissolution within 5 min at 20 °C	Solubility test	Complete	PASS
Absorbance Ratio A640/A420	> 3.5 (purity indicator — low intermediate content)	UV-Vis dual wavelength	4.1	PASS
Loss on Drying	\leq 10.0% w/w (hygroscopic material)	105 °C / 2 h (gravimetric)	6.2%	PASS



Certificate of Analysis

COA-ASD-628-L001
www.ausamics.com.au

Test Parameter	Specification	Method	Result	Status
pH (1% aqueous solution)	4.0 – 6.5	Potentiometry (ISO 10523)	5.1	PASS
Heavy Metals (Pb equiv.)	≤ 20 ppm	ICP-MS	< 5 ppm	PASS
Arsenic	≤ 3 ppm	ICP-MS	< 1 ppm	PASS
Microbiological Quality	TVC ≤ 1000 CFU/g; pathogens absent	USP <61>/<62>	Conforms	PASS
CAS Identity Verification	CAS 3536-49-0; C.I. 42051 confirmed	Spectral + literature comparison	Confirmed	CONFORM

Conclusion: Lot PBV260301 fully meets all release specifications for Patent Blue V calcium salt (CAS 3536-49-0, C.I. 42051). This lot is **RELEASED for use**.

Quality Control Analyst

AuSaMicS Quality Control Department
Date: March 2026 | Signature:

Quality Manager

AuSaMicS Pty Ltd
Date: March 2026 | Signature:

Disclaimer: AuSaMicS Pty Ltd (ABN 56 676 640 467) warrants that this product meets the specifications stated herein at time of manufacture and release. This product is supplied for laboratory, diagnostic, and permitted food/feed applications only. AuSaMicS Pty Ltd shall not be held liable for any direct, indirect, incidental, or consequential damages resulting from use outside its intended application. By using this product the purchaser agrees to these terms.