



Brilliant Green

an antimicrobial agent, pH indicator, and PCR monitoring agent

In PCR, Brilliant Green is used for monitoring the progress of DNA amplification by binding to double stranded DNA. Binding ability of Brilliant Green to DNA, also, prevent transcription and replication by preventing the binding of RNA polymerase.

In wastewater treatment, antimicrobial property of Brilliant Green is used to inhibit the growth of *Aerobacter aerogenes*.

In microbial culture media preparation, Brilliant Green is used as a pH indicator.

Cat. Number	ASC-1002
CAS Number	633-03-4
MDL Number	MFCD00011880
Color Index	42040
PubChem	310268543
Molecular Weight	482.64 g/mol
Molecular Formula	C ₂₇ H ₃₄ N ₂ O ₄ S
Solubility	Soluble in water (100 mg/ml)
	Soluble in methanol and 2-methoxyethanol (60 mg/ml)
	Soluble in ethanol (50 mg/ml)
Storage Temperature / condition	20 °C / Keep away from oxidizing agents.
Form and Color	Powder to Crystalline Powder / Blue to Green
	Blue to Green
Dye Content	≥ 85%
pH Transition Range	0.0 (Yellow) - 2.6 (Green)
Wavelength of Maximum Absorption	~625nm in 50% ethanol
Loss on Drying	≤ 5 %
Synonym	Astradiamant green GX