



Hematoxylin

Hematoxylin is a natural compound extracted from the heartwood of the logwood tree (*Haematoxylum campechianum*). It has a long history of use in biological sciences, primarily as a vital stain in histology. Hematoxylin specifically stains cell nuclei a deep blue or purple color, allowing detailed visualization of cellular morphology under a microscope. This staining technique, often combined with eosin (resulting in Hematoxylin and Eosin or H&E stain), is the gold standard for routine histological examination of tissues in various medical fields.

Cat. Number	ASC-1032
CAS Number	517-28-2
MDL Number	MFCD00078111
PubChem	310274419
Molecular Weight (anhydrous)	302.29 gr/mol
Molecular Formula	C ₁₆ H ₁₄ O ₆ · xH ₂ O
Storage Temperature	+20°C
Form and Color	Powder, Light-Yellow to Brown or Beige
Solubility (0.1% in ethanol)	Clear to slightly turbid, yellow, orange or brown solution
Wavelength of Maximum Absorption	517 - 525 nm
Absorption Ratio ($\lambda_{max} \pm 15\text{nm}$)	0.9 - 1.1
Loss on Drying	≤ 7%
Purity (HPLC)	≥ 95%