

Product Name: Hematoxylin

Catalog No.: 5222

Batch No.: 4

CAS Number: 517-28-2

EC Number: 208-237-3

IUPAC Name: (6a*S*,11*bR*)-7,11*b*-Dihydrobenz[*b*]indeno[1,2-*d*]pyran-3,4,6*a*,9,10(6*H*)-pentol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₄O₆·3H₂O

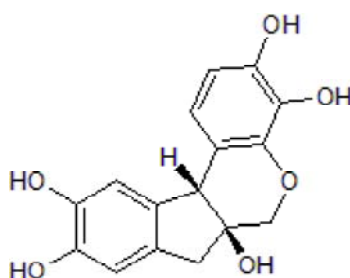
Batch Molecular Weight: 356.33

Physical Appearance: Brown solid

Solubility: ethanol to 3 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Em 550nm(0.1M NaOH): 18,698

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956

Product Name: Hematoxylin

Catalog No.: 5222

Batch No.: 4

CAS Number: 517-28-2

EC Number: 208-237-3

IUPAC Name: (6a*S*,11*bR*)-7,11*b*-Dihydrobenz[*b*]indeno[1,2-*d*]pyran-3,4,6*a*,9,10(6*H*)-pentol

Description:

Hematoxylin is a dye used to stain cell nuclei. Hematoxylin is commonly combined with eosin for H&E histological staining and is a component of the Papanicolaou stain used in cytology. Hematoxylin can be used with other fixatives to stain muscle striations, fibrin, myelin and elastin. Can also be used for H&E staining of intact tissues.

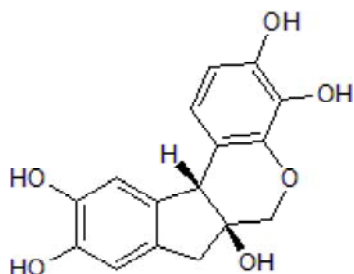
Physical and Chemical Properties:

Batch Molecular Formula: C₁₆H₁₄O₆·3H₂O

Batch Molecular Weight: 356.33

Physical Appearance: Brown solid

Batch Molecular Structure:



References:

Li *et al* (2018) Hematoxylin and eosin staining of intact tissues via delipidation and ultrasound, *Sci.Rep.* **8** 12259. PMID: 30115962.

Storage: Store at RT

Solubility & Usage Info:

ethanol to 3 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956