

**Product Name:** Hematoxylin

**Catalog No.:** 5222

**Batch No.:** 6

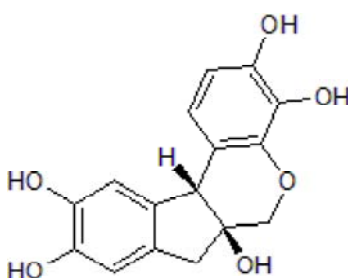
CAS Number: 517-28-2

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

<b>Batch Molecular Formula:</b>	C <sub>16</sub> H <sub>14</sub> O <sub>6</sub>
<b>Batch Molecular Weight:</b>	302.28
<b>Physical Appearance:</b>	Light brown solid
<b>Solubility:</b>	ethanol to 3 mM
<b>Storage:</b>	Store at RT
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>Dye Content:</b>	84%
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**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.

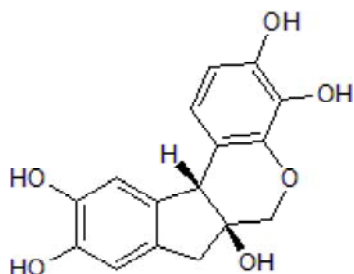
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>

Batch Molecular Weight: 302.28

Physical Appearance: Light 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.

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