

Certificate of Analysis

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Product Name: Poly Vinyl Alcohol

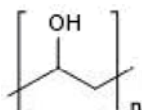
Catalog No.: 6991

Batch No.: 1

CAS Number: 9002-89-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance: Off-white solid
Solubility: water to 40 mg/ml
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Assay (% hydrolysed): 88.3%
Viscosity (4% in water): 25.7 cps

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

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Product Information

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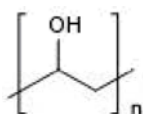
Description:

Poly Vinyl Alcohol is a carrier molecule for stem cells. Replaces serum albumin for ex vivo stem cell expansion, circumnavigating the innate immune response invoked by serum albumin. Average MW 85,000-124,000, 87-89% hydrolyzed.

Physical and Chemical Properties:

Physical Appearance: Off-white solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 40 mg/ml

This product is slow to dissolve and standard methods such as stirring and sonicating cause frothing. Full solubilisation can be achieved by warming the sample in a water bath (40°C) for 3-4 hours.

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.

References:

Cyranoski *et al* (2019) Blood stem cells produced in vast quantities in the lab. *Nature* **570** 17. PMID: 31164758.

Wilkinson *et al* (2019) Long-term ex vivo haematopoietic-stem-cell expansion allows nonconditioned transplantation. *Nature* **571** 117. PMID: 31142833.

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