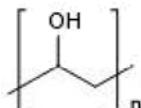


**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** Poly Vinyl Alcohol**Catalog No.:** 6991**Batch No.:** 1

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

[www.tocris.com](http://www.tocris.com)**Product Name:** Poly Vinyl Alcohol**Catalog No.:** 6991**Batch No.:** 1

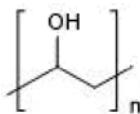
CAS Number: 9002-89-5

**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 sonication 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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