

Product Information

TrueGel3D Polymer

Modified for fast gelling (FAST-PVA)

Catalog Number **TRUEPVAF**

Storage Temperature $-70\text{ }^{\circ}\text{C}$

Synonym: FAST-PVA Polymer

Product Description

FAST-PVA polymer is a synthetic non-degradable polymer functionalized with maleimide thiol-reactive groups that react rapidly with crosslinkers (PEG or CD cell-degradable crosslinker) to form biomimetic hydrogels in few seconds. The TrueGel3D buffer, pH 5.5, provided ensures homogenous mixing of polymer and crosslinker by slowing down gel formation and simultaneously controlling osmotic conditions. Most cells are not affected by a short exposure to buffer at pH 5.5.

The chemically defined hydrogels formed from FAST-PVA polymer and crosslinkers are transparent, which can mimic natural extracellular matrix environment with complete control over gel stiffness. FAST-PVA polymers are used when the application requires fast gelation, as in the case of bioprinting.

Components

- FAST-PVA, $3 \times 170\text{ }\mu\text{L}$
solution in phosphate buffer
(Each tube contain 30 mmol/L of reactive groups)
Catalog Number TRU-FPVA
- TrueGel3D buffer, pH 5.5, 10 \times $600\text{ }\mu\text{L}$
Catalog Number TRUEBUF-55PH
- Water $4 \times 1,500\text{ }\mu\text{L}$
Catalog Number TRUWA

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

- FAST-PVA should be stored at $-70\text{ }^{\circ}\text{C}$.
Note: Avoid frequent freeze-thaw cycles.
- Buffers are stored at $4\text{ }^{\circ}\text{C}$ for short term (<2 months) and between $-20\text{ }^{\circ}\text{C}$ and $-70\text{ }^{\circ}\text{C}$ for long term.
- Water can be stored between $-70\text{ }^{\circ}\text{C}$ and room temperature.

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