

Materials List for:

Single Molecule Fluorescence *In Situ* Hybridization (smFISH) Analysis in Budding Yeast Vegetative Growth and Meiosis

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Materials

Name	Company	Catalog Number	Comments
BSA, RNase-free (50 mg/mL)	Ambion	AM2616	Store at -20 °C.
Catalase	Sigma	C3515	Store at 4 °C for short-term. Vortex before use.
DAPI	Sigma	D9564	Store at -20 °C after reconstitution in water. Protect from light.
50% Dextran Sulfate	Milli Pore	S4030	Store at room temperature. Very viscous liquid. Handle with patience.
<i>E. coli</i> tRNA	Sigma	R4251	Store at -20 °C in aliquots after reconstitution in water.
Ethanol (100%, 200 proof)	various		Flammable.
37% Formaldehyde	Fisher	F79-500	Store at room temperature. Toxic. Use and dispose with caution.
Formamide	Ambion	AM9342	Store at 4 °C. Open after the temperature equilibrates to room temperature in order to prevent oxidation. Toxic. Use and dispose with caution.
Glucose	various		Store at 4 °C after dissolving in nuclease-free water.
Glucose oxidase	Sigma	G2133	Store at -20 °C in aliquots after reconstitution in 50 mM NaOAc, pH 5.
Nuclease-free water	Ambion	AM9932	Store at room temperature.
Potassium phosphate (monobasic and dibasic)	various		Store at room temperature.
Probe library, diluted in TE, pH 8.0	Biosearch Technologies		Store at -20 °C in aliquots (5 µL) after reconstitution in TE pH 8.0, following the instructions from the manufacturer. Protect from light.
Sorbitol	various		Store at room temperature.
20X SSC	Ambion	AM9763	Store at room temperature.
TE, pH 8.0	Ambion	AM9849	Store at room temperature.
1 M Tris, pH 8.0	Ambion	AM9856	Store at room temperature.
Trolox	Sigma	238813	Store at -20 °C in aliquots.
200 mM Vanadyl ribonucleoside complex (VRC)	NEB	S1402S	Store at -20 °C in aliquots after reconstitution, following the instructions from the manufacturer.
Zymolyase 100T	MP Biomedicals	08320932	Store at -20 °C in aliquots after reconstitution in water.

Low-adhesion tubes	USA Scientific	1415-2600	Store at room temperature.
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