



Chrometra phalloidin tags for expansion microscopy

Thanks for your interest in our new labels for expansion microscopy! This package contains a tri-functional label that carries phalloidin, fluorophore of your choice and the anchor group (acroyl) for the acrylamide gel, commonly used in expansion microscopy.

The reagents are in DMSO, at 10 μ M and we recommend this is diluted 40x for cell labelling.

Phalloidin Staining Protocol for Expansion Microscopy

- 1) Treat the sample as for a standard expansion microscopy experiment (fix, label and if desired perform immunolabelling/anchoring of the antibodies).

[Note: If using antibodies labelled using Chrometra Antibody Xpand this step can be performed at the same time as the Actin-ExM staining.]

- 2) Prepare Actin-ExM labelling solution by adding 5 μ L of the stock Actin-ExM label to 195 μ L of labelling/blocking buffer (Phosphate buffered saline (PBS), pH 7.4, 10% FBS, 0.1% Tween 20) and mix well.
- 3) Wash the sample, cover the sample with the Actin-ExM staining solution.
- 4) Incubate for 30 minutes (up to 1 hour) at room temperature.
- 5) Aspirate the Actin-ExM staining solution.
- 6) Wash the sample twice with PBS.
- 7) Proceed to gelation for expansion microscopy **immediately**. We strongly recommend that the time from staining to gelation is minimised to guarantee optimal performance of the Actin-ExM probes.

We hope you enjoy using our Actin-ExM labels. Please help us to improve your experience! We'd love to see images of samples stained with our labels and welcome feedback and suggestions on your experience: info@chrometra.com.