Reconstitution of myTags® *in situ* Hybridization Products

All myTags Labeled Probes, Immortal Libraries and amplification primer will arrive as dried product in tubes. Store at -20°C.

Reconstitution of Labeled Ready-to-Use myTags Probes;

Resuspend Labeled myTags probes to a concentration of 10 pmol/µl in RNase/DNase free TE buffer (10 mM Tris,1 mM EDTA, (pH 8.0) made with nuclease-free water.

- Aliquot into 100 pmol aliquots (10 µl) store -20°C
- Amount of probe per reaction (slide) needs to be optimized per user.
- Volume of hybridization mix used per slide needs to be optimized per user.

Recommended starting amount of 10 pmol myTags probes/hybridization reaction on each slide for metaphase chromosome spreads, 20 pmol myTags probes/hybridization reaction on each slide for intact cells and sections.

Reconstitution of myTags Amplification Primer;

Briefly centrifuge myTags PCR Primer Mix tube and resuspend primers in 75 µl nuclease-free water.

- Final concentration will be 100 µM in 10 mM Tris-HCl and 0.1 mM EDTA pH 8.0.

Reconstitution of Immortal myTags Library for PCR Amplification;

Briefly centrifuge myTags Immortal DNA Library tube and resuspend myTags Immortal Library at 1 ng/µl by adding 200 µl 10 mM Tris-HCl pH 7.5 or nuclease-free water.

- Prepare working stock aliquots (0.07 ng/µl) by diluting 2 µl of immortal library in 26 µl nuclease-free water.
- Refer to the *Immortal Labeling Protocol* (https://arborbiosci.com/genomics/cytogenomics/mytags-fish-probes/mytags-immortal-probe-library/) for amplification and labeling procedures.