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*c*DenHyb™ Solutions (for Cell FISH --- interphase and metaphase FISH)

*c*DenHyb™ solutions are highly effective hybridization solutions for FISH on interphase, metaphase, and cultured cells. *c*DenHyb™ solutions are compatible with a wide range of home-brewed or commercially available directly- and indirectly labeled DNA probes: repeat sequence, paint, and unique sequence probes.

- *c*DenHyb-1 is optimized for cell FISH when repeat sequence or paint probes (*e.g.*, Vysis CEP or WCP probes) were used. But *c*DenHyb-1 is slightly weak for unique sequence probes.
- *c*DenHyb-2 is optimized for cell FISH when unique sequence probes (*e.g.*, Vysis LSI probes) were used. But *c*DenHyb-2 is less effective for repeat sequence or paint probes.

Dilute or suspend labeled DNA probes in an appropriate *c*DenHyb™. Then, perform your in-house cell FISH procedure with the DNA probes (in *c*DenHyb™). More effective and convenient FISH can be achieved by using Insitus MetalTray FISH protocols* which are based on the use of Metal Slide Tray and HybBox™ in conjunction with the use of *c*DenHyb.

If you perform FISH with Insitus *c*DenHyb™ solutions using your in-house FISH protocol or protocol provided by vendors that sell DNA probes, a slight adjustment of your denaturation condition close to the Insitus Manual Cell FISH protocols would maximize hybridization signals.

If you are doing FISH with your home-brewed DNA probes, simply dilute or suspend your probes in *c*DenHyb solution. Add blocking DNA if necessary. The optimal concentration of the home-brew probe must be determined empirically.

If you are using commercial repeat sequence probes (*e.g.*, Vysis), you may dilute these probes by 100- to 500-fold, depending on probes, with *c*DenHyb-1 solution. Hybridization in HybBox or other system for 30 min is sufficient to view good signals.

If you are using commercial unique sequence probes (*e.g.,* Vysis), you may dilute these probes by 50- to 100-fold, depending on probes, with *c*DenHyb-2 solution. For ready-to-use **Vysis UroVysion Kit**, the premixed UroVysion probes can be diluted at 1:5 or 1:10 with *c*DenHyb-2. Overnight hybridization in HybBox at ambient temperature or humid box at 37°C is recommended to increase signal intensity. For mixed probes containing unique sequence and repeat sequence probes, dilute both types of probes in *c*DenHyb-2.

***Application of DenHyb to CGH (Comparative Genomic Hybridization)**: *c*DenHyb-2 is also used to enhance signals for CGH

Available *c*DenHyb are:

- Catalog # INS-D001; *c*DenHyb-1, 1 ml
- Catalog # INS-D002; *c*DenHyb-2, 1 ml