

## cDenHyb™ Solutions (for Cell FISH --- interphase and metaphase FISH)

cDenHyb™ solutions are highly effective hybridization solutions for FISH on interphase, metaphase, and cultured cells. cDenHyb™ 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.

- cDenHyb-1 is optimized for cell FISH when repeat sequence/centromeric or paint probes were used. But cDenHyb-1 is slightly weak for unique sequence probes.
- cDenHyb-2 is optimized for cell FISH when unique sequence probes were used. But cDenHyb-2 is less effective for repeat sequence or paint probes.

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

If you perform FISH with Insitus cDenHyb™ 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 cDenHyb solution. Add blocking DNA if necessary. The optimal concentration of the home-brew probe must be determined empirically.

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\*Application of DenHyb to CGH (Comparative Genomic Hybridization): cDenHyb-2 is also used to enhance signals for [CGH](#)

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Available cDenHyb are:

- Catalog # D001; cDenHyb-1, 1 ml
- Catalog # D002; cDenHyb-2, 1 ml

In addition, [cDenHyb Trial Set](#) is available.

\*Insitus protocol for cell FISH with cDenHyb is available upon request.  
Please visit [Information Request](#) subpage.