

www.idlabs.com
idinfo@idlabs.com

Porcine IDetect™ Chromosome Paint Probes

FISH Short Protocol

Hybridization

- 1. Chromosomes are prepared following standard protocols.
- 2. Glass slides are acid-cleaned and stored in deionized water. Drain the excess of water on the slides and drop the chromosome suspension.
- 3. After air-drying age the slides at 50-55 °C for 3 hours.
- 4. Prepare the labeled probe in hybridization buffer (50% formamide / 2XSSC pH 6.8 / 10% dextran sulphate).

Mix 5 μ l of probe and 5 μ l of hybridization buffer

Note 1 : Probes are labeled directly with a fluorochrome. During hybridization and post-hybridization procedures, minimize exposure to light, of the tubes and slides with the probe.

- 5. Apply 10µl of diluted probe onto the slide and cover with a 22X22 mm coverslip and seal with rubber cement.
- 6. Allow evaporation of the rubber solution and denature on a hot plate the chromosomes/probe at 68.3°C for 5 minutes, and hybridize for 12-16 hours in a humidified chamber at 37°C.

Post-hybridization washings:

4.

- 1. Prepare a "0.4X" solution containing 0.4XSSC with 0.3% Igepal (Sigma) pour in a coplin jar and warm up to 73°C in a water bath. Allow about 2 hours until complete equilibration of the temperature in the jar.
- 2. Then, carefully remove the rubber cement from the slides and place them in a coplin jar with "2X" solution containing 2XSSC and 0.1% Igepal at room temperature. Periodically gently shake to remove the coverslips.
- 3. Wash the slides in the hot 0.4X solution for 2 minutes, then very carefully transfer them to the 2X solution and incubate at room temperature for 1 minute.
 - **Note 2:** Wash one slide at the time and allow an interval between slides of at least 3 minutes to reestablish the temperature on the hot solution.
- 5. Finally, rinse briefly the slides in double distilled water and air dry.
- 6. Mount with Vectashield/DAPI.
- 7. Proceed with microscope analysis using the appropriate wavelength for the fluorochrome used.

Optimal Dilutions and reaction conditions must be determined by the end user.