

TECHNICAL TIPS OF THE MONTH

JUNE 2008



Why does the denaturation step for a Poseidon probe have to be performed at 75°C, while a Vysis probes only needs denaturation at 72°C?

Poseidon probes are supplied in a double-stranded annealed format. On the other hand, Vysis probes are pre-denatured, therefore, the denaturation can be performed at somewhat lower temperatures. However, in order to prevent premature re-annealing, Vysis probes have to be stored at -20°C whereby our probes can conveniently be stored in the fridge without freezing. In addition, Poseidon probes do not need to be shipped on dry-ice (see also Technical Tips May 2008).

What is the difference between a ThermoBrite from Kreatech and a Vysis HyBrite? Are these units identical?

The HyBrite is the old version of the ThermoBrite. At that time, there was no good humidity control system, and therefore gave rise to some performance problems. With the new ThermoBrite and the humidity control cards, which are available from Kreatech, this issue is addressed.

What is the warranty time for our ThermoBrite?

The units are sold with a 12 months full warranty. In the unlikely case there is a service incident in the first year, Kreatech will take care of it and cover its expense unless the cause of malfunctioning has been an obvious user error. We will be making use of a service center in the UK for such cases.

What is the difference in application between the probe ON EVI t(3;3) dual color and ON EVI t(3;3) triple color?

The region 3q26, in which the locus EVI-1 is located, is a very wide breakpoint region in which rearrangements are associated to myeloid malignancies.

The dual color probe KBI-10204 recognizes the inversions at chromosome 3q26 proximal to the EVI-1 locus. However, since distal breakpoint translocations involving 3q26 are still within the coverage of the red part of the probe, the dual-color probe may under certain circumstances not give a clear split of red and green, but a red/green and additional small red signal. In order to give a clear break result, an additional region labeled in blue has been added to cover the larger breakpoint region.

Therefore, the triple color probe KBI-10205 provides additional information with respect to the dual color probe: due to the more distally located blue part of the probe, a more clear split of signals is observed (You can also find images and further informations at page 19 of our Catalogue 2008-2009).

Errata Corrige: In the Poseidon Catalogue 2008-2009, pag. 29, the image on Cat # KBI-10608 on paraffin-embedded patient sample is to be referred as Cat # KBI-10731.