Quick guide for validating KASP Triton-free Master Mix

In compliance with the Annex XVII of the Registration, Evaluation, Authorisation and Restrictions of Chemicals (REACH) regulations, LGC, Biosearch Technologies™ has reformulated KASP™ Master Mix to remove Triton™ X-100 (Triton). The new Triton-free KASP (KASP-TF) Master Mixes have undergone rigorous validation to ensure performance equivalency to the legacy KASP formulations, so our customers can use the new formulations in genotyping experiments with ease and confidence.

These tips are intended to help you confirm performance of your new KASP-TF Master Mix formulation, by comparison with your legacy KASP Master Mix. Following these guidelines should help you limit the number of experiments needed and time required for validation, and will help us provide faster and more efficient technical support to you – just in case you should need any help along the way.

KASP-TF Master Mix formulations have equivalent performance to legacy formulations and no impact on the end-point genotyping data produced.

Please note that genotyping data produced with your sample of KASP-TF Master Mix sample should only be compared with equivalent genotyping data that was produced using your legacy KASP Master Mix. This will allow for the best understanding of concordance between master mixes.

- Use the same set of DNA samples (from the same extraction/purification process). We recommend a minimum of 24 samples.
- Use same KASP Assay, from the same aliquot.
- Perform the reactions on the same day, or as close to the same day as possible.
- Run your reactions on the same type of plate.
- Ensure all reactions are of the same final volume.
- Use the same laboratory equipment, including the plate reader/qPCR instrument.
- Ensure the reaction plate contains at least 2 non-template control (NTC) wells for each assay.
- Consider running assays which will demonstrate both homozygous and heterozygous results in order to clearly show the generation of the genotyping clusters on the data plot.

If you have any questions, please visit our KASP-TF Master Mix webpage or contact techsupport@lgcgroup.com.

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