

SNP genotyping your way! BHQ Probe Master Mix

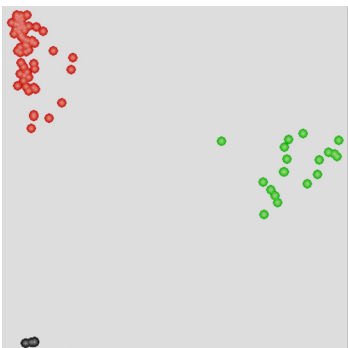
Versatile 2x PCR master mix for accurate, high-throughput, end-point probe-based SNP genotyping

BHQ® Probe Master Mix is a versatile 2x PCR master mix specially designed to deliver optimal SNP genotyping results for high-throughput, low volume, end-point probe-based SNP genotyping that enables use of an extraction method of your choice across a range of probe, sample, and template types. Pair BHQ Probe Master Mix with BHQ Probes for a high-fidelity, low background, and highly accurate SNP genotyping assay that yields clear results making data interpretation simple.

Why BHQ Probe Master Mix?

- Ultimate versatility - pair with an extraction method and throughput option of your choice and achieve accurate results even in the presence of sample inhibitors in total reaction volumes as low as 0.8 µL.
- Optimised to pair with BHQplus® Probes for high-precision, worry-free genotyping
- Proven reliable and repeatable performance across a range of challenging plant and animal sample and template types, including AT-rich species.

BHQ Probe Master Mix



Competitor Mix

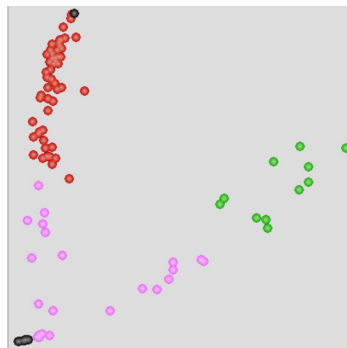


Figure 1: A direct comparison of BHQ Probe Master Mix to that of a leading market competitor on crudely extracted and challenging sunflower seed samples known to contain inhibitors. BHQ Probe Master Mix shows tight and easily resolvable clusters with limited no template control (NTC) movement even in the presence of sample inhibitors present in higher concentrations due to the very low total reaction volume of 0.8 µL. Competing mix shows retarded amplification due to inhibitors resulting in samples where genotype cannot be assigned (pink circles). Experiments adhered to respective mix protocols on hot shot extracted sunflower seed samples using BHQplus Probes on a Nexar® Integrated Liquid Handling and Assay Processing System.

BHQplus Probes are engineered to achieve enhanced target specificity while delivering the quenching power of the Black Hole Quencher® (BHQ). This enhanced specificity is the result of a shorter probe designed to form highly stable duplexes with DNA targets rendering it the ideal option for the high-fidelity required for confident allele calls.

For a simple, reduced hands-on workflow with less opportunity for pipetting errors, combine BHQ Probe Master Mix with ValuMix™ Assays for SNP genotyping. ValuMix Assays combine an optimised ratio of BHQplus Probes and primers in a single tube. Simply resuspend and use!

ValuMix Assays provide all of the primers and probes required for SNP genotyping.

- Tube contents include two allele specific, reverse-phase HPLC purified BHQplus Probes, one 5' FAM labeled and the other 5' labeled with a fluorophore of your choice (TET, CAL Fluor® Gold 540, CAL Fluor Orange 560), as well as a forward and reverse primer.
- Probes and primers are delivered in an optimised ratio of 1:4.5 for all scales.

Refer to the table below to select the appropriate probe/dye combination for your ValuMix Assay with the recommended volume of BHQ Probe Master Mix.

ValuMix for SNP genotyping (probe concentration)	ValuMix product code	BHQ Probe Master Mix minimum kit volume	BHQ Probe Master Mix product code
2 nmol	FTBP-2 (FAM/TET) FCBP-2 (FAM/CAL Fluor Orange 560) FGBP-2 (FAM/CAL Fluor Gold 540)	5 mL	KBS-1040-003 No ROX KBS-1040-013 Low ROX KBS-1040-023 Standard ROX
5 nmol	FTBP-5 (FAM/TET) FCBP-5 (FAM/CAL Fluor Orange 560) FGBP-5 (FAM/CAL Fluor Gold 540)	25 mL	KBS-1040-005 No ROX KBS-1040-015 Low ROX KBS-1040-025 Standard ROX
12 nmol	FTBP-12 (FAM/TET) FCBP-12 (CAL Fluor Orange 560) FGBP-12 (CAL Fluor Gold 540)	200 mL	KBS-1040-006 No ROX KBS-1040-016 Low ROX KBS-1040-026 Standard ROX

BHQ Probe Master Mix product code list

BHQ Probe Master Mix product code	BHQ Probe Master Mix kit volume	Description
KBS-1040-001	1.25 mL	2x BHQ Probe Master Mix, No ROX
KBS-1040-002	2.5 mL	2x BHQ Probe Master Mix, No ROX
KBS-1040-003	5.0 mL	2x BHQ Probe Master Mix, No ROX
KBS-1040-004	10 mL	2x BHQ Probe Master Mix, No ROX
KBS-1040-005	25 mL	2x BHQ Probe Master Mix, No ROX
KBS-1040-006	200 mL	2x BHQ Probe Master Mix, No ROX
KBS-1040-011	1.25 mL	2x BHQ Probe Master Mix, Low ROX
KBS-1040-012	2.5 mL	2x BHQ Probe Master Mix, Low ROX
KBS-1040-013	5.0 mL	2x BHQ Probe Master Mix, Low ROX
KBS-1040-014	10 mL	2x BHQ Probe Master Mix, Low ROX
KBS-1040-015	25 mL	2x BHQ Probe Master Mix, Low ROX
KBS-1040-016	200 mL	2x BHQ Probe Master Mix, Low ROX
KBS-1040-021	1.25 mL	2x BHQ Probe Master Mix, Standard ROX
KBS-1040-022	2.5 mL	2x BHQ Probe Master Mix, Standard ROX
KBS-1040-023	5.0 mL	2x BHQ Probe Master Mix, Standard ROX
KBS-1040-024	10 mL	2x BHQ Probe Master Mix, Standard ROX
KBS-1040-025	25 mL	2x BHQ Probe Master Mix, Standard ROX
KBS-1040-026	200 mL	2x BHQ Probe Master Mix, Standard ROX



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