

KASP genotyping trial kit

Quick start guide

Materials required:

- 96- or 384-well reaction plate
- Plate seal
- Thermal cycler + FRET-capable plate reader OR a qPCR instrument.

Before you start:

- Thaw the DNA plate
- Thaw the KASP Master mix and KASP Assay mix tubes.

Step 1. Add DNA samples to the reaction plate.

Briefly vortex and spin down the DNA plate. Use a single- or multi- channel pipette to transfer DNA to the reaction plate. Add 5 μ L of each sample to a 96-well plate OR 2.5 μ L of each sample to a 384-well plate.

Step 2. Prepare the genotyping mix.

Vortex the Master mix and Assay mix.

For 96-well plates: combine 300 μ L KASP Master mix with 8.4 μ L KASP Assay mix.

For 384-well plates: combine 150 μ L KASP Master mix with 4.2 μ L KASP Assay mix.

Step 3. Dispense genotyping mix on to the reaction plate.

Pipette genotyping mix (prepared in Step 2) on to DNA samples in the reaction plate.

For 96-well plates: 5 μ L genotyping mix per sample well.

For 384-well plates: 2.5 μ L genotyping mix per sample well.

Step 4. Seal and centrifuge the reaction plate.

Seal the plate with an optically clear seal. Centrifuge the plate at $\geq 550 \times g$

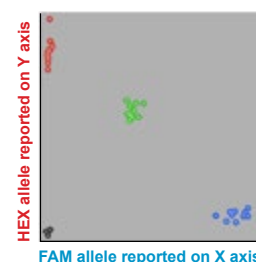
Step 5. Perform the thermal cycle

Step	Description	Temperature	Time	Number of cycles per step
1	Activation	94°C	15 min	1
2	Denaturation	94°C	20 sec	10 cycles
	Annealing / Elongation	61-55°C	60 sec (drop 0.6°C per cycle)	
3	Denaturation	94°C	20 sec	26 cycles
	Annealing / Elongation	55°C	60 sec	

Step 6. Read the plate.

All plates should be read below 40°C.

If you have not obtained clear genotyping clusters, the plate should be thermally cycled for an additional three cycles and read again. The recommended conditions for recycling are 94°C for 20 seconds, 57°C for 60 seconds; repeat this for a total of three times and re-read the plate, this can be repeated until clear clusters are achieved.



For any queries on this guide please contact:

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