

Product Information	
AccuMelt HRM SuperMix	
Part Number	95103
Unit Size	<u>12.5mL</u>
Storage Temperature	-25°C to -15°C
Lot Number	<u>66209877</u>
Reference Number	<u>032322</u>
Expiration Date	<u>03/31/2025</u>

Product Description:

AccuMelt HRM SuperMix is a 2x concentrated, ready to use reaction cocktail for detection of genetic variations using high resolution melting (HRM) analysis. It includes all required components except for primers and DNA template. HRM is a closed tube, rapid and cost effective procedure for characterization of sequences differences immediately following PCR amplification. It is based on the melting (dissociation) behavior of a PCR product as it transitions from double stranded to single stranded DNA in the presence of a fluorescent dsDNA binding dye.

Product Specifications			
95103			
Assay	HRM SuperMix Functional Mouse Genomic DNA Assay	DNase	RNase
Result	Pass	Pass	Pass

Quality Control Analysis and Specifications:

Nuclease Assay:

DNase: DNase activity must be below the detectable limits of 100 pg DNase I equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

RNase: RNase activity must be below the detectable limits of 1 pg RNase A equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

HRM SuperMix Functional Mouse Genomic DNA Assay: Must have detection of a single copy Gene (APOE) from 10 copies of mouse genomic DNA. Slope from Ct standard curve analysis must be between -3.25 and -3.65 with a coefficient of determination (R^2) of ≥ 0.990 .

SNP Discrimination Assay: Must resolve homozygote samples for class 4(A>T) and class 3 (C/G) SNPs in a model test system.

Limitations of Use

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This product was developed, manufactured, and sold for *in vitro* use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.