

Product Information	
AccuMelt HRM SuperMix	
Part Number	172-5587
Unit Size	5.10 mL
Storage Temperature	-25°C to -15°C
Lot Number	66169344
Reference Number	090820
Expiration Date	09/30/2023

**Product Description:**

Custom fill of 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			
172-5587			
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  $\geq 0.990$ .

**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.