Product Specifications 95103-250 Rev 01

**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.

**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.

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