

| Product Information   |                |
|-----------------------|----------------|
| AccuMelt HRM SuperMix |                |
| Part Number           | 95103-250      |
| Number of Reactions   | 250 Reactions  |
| Reaction Size         | 20 $\mu$ L     |
| Storage Temperature   | -25°C to -15°C |
| Lot Number            | 027891         |
| Reference Number      | 041718         |
| Expiration Date       | 04/30/2021     |

**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.

**Component Part Numbers:**

84162 AccuMelt HRM SuperMix, 1.25mL

| 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  $\geq 0.990$ .

**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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