**Product Specifications 95103-250 Rev 01**

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**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.

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**Component Part Numbers:**
84162 AccuMelt HRM SuperMix, 1.25mL

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**Product Specifications**

<table>
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<tr>
<th>Assay</th>
<th>HRM SuperMix Functional Mouse Genomic DNA Assay</th>
<th>DNase</th>
<th>RNase</th>
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<tbody>
<tr>
<td>Result</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
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</tbody>
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**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 $\geq0.990$.

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

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**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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