Product Specifications 95136-500 Rev 01

Product Description:
AccuStart II PCR SuperMix is a 2X concentrated, ready-to-use reaction cocktail for routine PCR amplification of DNA fragments up to 4 kb. It contains all components, except primers and template. AccuStart II PCR SuperMix simplifies reaction assembly, improves assay reproducibility, and reduces the risk of contamination. A key component is AccuStart™ II Taq DNA polymerase which contains monoclonal antibodies that bind to the polymerase and keep it inactive prior to the initial PCR denaturation step. Upon heat activation (1 minute at 94°C), the antibodies denature irreversibly, releasing fully active, unmodified Taq DNA polymerase. This enables specific and efficient primer extension with the convenience of room temperature reaction assembly.

Component Part Numbers:
84362 qScript XLT Multiplex 1-Step ToughMix 1.0 mL

<table>
<thead>
<tr>
<th>Assay</th>
<th>4.1KB PCR Functional Assay</th>
<th>DNase</th>
<th>RNase</th>
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</thead>
<tbody>
<tr>
<td>Result</td>
<td>Pass</td>
<td>Pass</td>
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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.

**4.1KB PCR Functional Assay**: Negative control must be free of visible product with a single band at ~4.1kb visible from 35 cycles of PCR using 20ng human genomic DNA.

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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