Product Description:
AccuStart PCR SuperMix is a 2X concentrated, ready-to-use cocktail for routine PCR amplification of DNA fragments up to 4 kB. It contains all components, except primers and template.

Product Specifications

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<th>Assay</th>
<th>qPCR β-actin Plasmid DNA Functional 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>
</table>

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.

qPCR β-actin Plasmid DNA Functional Assay: Detection of β-actin from 10 copies to $1 \times 10^7$ copies. Correlation of determination ($R^2$) ≥ 0.990 from Ct standard curve analysis. Slope from Ct standard curve analysis between -3.20 and -3.70.

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.

100 Cummings Center, Suite 407J, Beverly, MA 01915 • Ph (888) 927-7027 • Fax (978) 867-5724 • [www.QuantaBio.com](http://www.QuantaBio.com) FMWI016.2 Rev01