Product Specifications: AccuStart Taq DNA Polymerase HiFi combines high-yielding mutant Taq DNA polymerase with 3’-exonuclease (proof-reading) polymerase and ultrapure, monoclonal antibody hot-start activation control. This reagent provides highly-sensitive and precise target amplification with convenient assembly at ambient temperature. Robust and reliable amplification of large, complex DNA targets up to 20kb in length.

Component Part Numbers:
- 84122 AccuStart Taq DNA Polymerase HiFi, 0.05mL
- 84125 10X HiFi PCR Buffer 1.25mL
- 84126 50mM Magnesium Sulfate 1.25mL

Product Specifications

<table>
<thead>
<tr>
<th>Assay</th>
<th>23 Kb PCR Functional Assay</th>
<th>DNase</th>
<th>RNase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Result</td>
<td>Pass</td>
<td>Pass</td>
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</tr>
</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.

23 Kb PCR Functional Assay for HiFi DNA Polymerase: Amplification of >23-kb product must be visible by agarose gel electrophoresis following a 35 cycle PCR amplification of a single copy sequence from 100 ng human genomic DNA. Negative control must be free of visible product.