Product Information

<table>
<thead>
<tr>
<th>Extracta Plus DNA, 10 rxn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
</tr>
<tr>
<td>Number of Reactions</td>
</tr>
<tr>
<td>Storage Temperature</td>
</tr>
<tr>
<td>Lot Number</td>
</tr>
</tbody>
</table>

Component Part Numbers:

- 1123997 Proteinase K 1.25 ml
- 1123999 Buffer EPDTL 1.8 ml
- 1124002 Buffer EPDL 2 ml
- 1124005 Buffer EPDW1 5 ml
- 1124008 Buffer EPDW2 5 ml
- 1124011 Buffer EPDE 2 ml
- 1124014 Extracta Plus-Spin Column 10 pc
- 1124016 Collection Tubes 2ml 20 pc

Product Description:
Extracta Plus DNA kits offer rapid purification of total DNA from a variety of samples sources. Genomic, mitochondrial and pathogenic DNA can be collected from fresh/frozen animal cells, tissues, blood, and bacteria. The Extracta Plus Spin column workflow enables simultaneous processing of multiple samples into purified DNA suitable for PCR, Southern blotting, RAPD, AFLP and next generation sequencing.

Purified DNA is eluted in low salt buffer or water. The fragments purified DNA from this kit will predominate in the 30 kb range, with fragments as large as 50 kb and as small as 100 bp being recovered.

Quality Control Analysis and Specifications:

Membrane control
Membrane binding capacity was tested by determining recovery of genomic DNA.
Yield of \( \geq 50 \mu g \) was obtained per Spin Column.
As tested by PCR, no PCR inhibitors were released from the membrane.

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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Buffers
Conductivity and pH of buffers and solutions were tested and were within the ranges below:

<table>
<thead>
<tr>
<th>Buffer</th>
<th>Conductivity (mS/cm)</th>
<th>pH</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPDL</td>
<td>38.40 – 45.40 (1/10 dilution)</td>
<td>5.90 – 6.10</td>
<td>Pass</td>
</tr>
<tr>
<td>EPDTL</td>
<td>20.50 – 28.20</td>
<td>8.10 – 8.50</td>
<td>Pass</td>
</tr>
<tr>
<td>EPDW1</td>
<td>50.20 – 59.80 (1/10 dilution)</td>
<td>–</td>
<td>Pass</td>
</tr>
<tr>
<td>EPDW2 t</td>
<td>28.60 – 34.20</td>
<td>7.40 – 7.60</td>
<td>Pass</td>
</tr>
<tr>
<td>EPDE</td>
<td>0.24 – 0.31</td>
<td>8.90 – 9.10</td>
<td>Pass</td>
</tr>
</tbody>
</table>

t Contains sodium azide as a preservative

Buffer EPDL was tested by preparation of genomic DNA from 200 µl of whole human blood. Average yield of genomic DNA was ≥ 90% of reference yield, with an $A_{260}/A_{280}$ ratio of 1.70 – 2.00. Pass

Functional absence of RNase was checked for Buffer EPDW2 t. Pass

Proteinase K
Activity was determined by incubation of hemoglobin substrate solution with Proteinase K in water, at 30°C for 10 min, followed by the determination of acid-soluble tyrosine at 750 nm. Pass

Absence of DNase and RNase activity was checked by incubation of DNA or RNA, with Proteinase K in enzyme incubation buffer at 37°C. Pass

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