NANOBIND MAGNETIC DISKS
• Circulomics technology reimagined for HiFi sequencing
• Easy bind, wash, and elute magnetic processing
• Highest DNA quality
• Manual or automation-compatible (requires automated version of kit)

WHAT'S NEW
• 24 samples per kit and new, reduced pricing
• New protocols for improved sample handling
• One-stop sample-to-answer workflow and support

A KIT FOR NEARLY ANY SAMPLE TYPE
• Nanobind CBB kit — cells, bacteria, and blood (102-301-900)¹
• Nanobind tissue kit — cells, bacteria, blood and tissues (102-301-900)²
• Nanobind plant nuclei kit — plants (102-302-000)³

EXTRACT HMW DNA FOR HI FI SEQUENCING IN FOUR STEPS
As fast as 45 minutes, depending on sample type

DIVERSE SAMPLE TYPES
High-quality HiFi sequencing results across all supported sample types⁴

<table>
<thead>
<tr>
<th>Kit</th>
<th>Sample type</th>
<th>Recommended library size (kb)</th>
<th>Mean HiFi read length (bp)</th>
<th>HiFi yield (Gb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nanobind CBB kit</td>
<td>MCF-7</td>
<td>15–18</td>
<td>17,585</td>
<td>35.5</td>
</tr>
<tr>
<td></td>
<td>L. monocytogenes</td>
<td>7–12</td>
<td>10,271</td>
<td>27.8</td>
</tr>
<tr>
<td></td>
<td>Human blood</td>
<td>15–18</td>
<td>14,552</td>
<td>37.7</td>
</tr>
<tr>
<td>Nanobind plant nuclei kit</td>
<td>Tobacco</td>
<td>15–18</td>
<td>16,277</td>
<td>32.3</td>
</tr>
<tr>
<td>Nanobind tissue kit</td>
<td>Human colon</td>
<td>15–18</td>
<td>12,814</td>
<td>28.1</td>
</tr>
</tbody>
</table>
HUMAN BLOOD SEQUENCING

NANOBIND HMW DNA VS QIAGEN MAGATTRACT HMW

- Higher extraction yield and UV purity
- Reduced amounts of fragmented DNA
- Improved read length and low distributions

<table>
<thead>
<tr>
<th>Kit</th>
<th>Whole blood input (µL)</th>
<th>GQN (10 kb)</th>
<th>260/280</th>
<th>260/230</th>
<th>Extraction yield (µg)</th>
<th>Mean HiFi read length</th>
<th>HiFi yield (Gb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nanobind CBB kit (n=3)</td>
<td>200</td>
<td>9.5 ± 0.1</td>
<td>1.8 ± 0.03</td>
<td>1.9 ± 0.3</td>
<td>5.2 ± 0.1</td>
<td>12,067 ± 467</td>
<td>279 ± 0.4</td>
</tr>
<tr>
<td>Qiagen MagAttract HMW kit (n=3)</td>
<td>200</td>
<td>8.7 ± 0.1</td>
<td>1.4 ± 0.1</td>
<td>0.4 ± 0.1</td>
<td>1.3 ± 0.3</td>
<td>10,985 ± 478</td>
<td>25.6 ± 2.5</td>
</tr>
</tbody>
</table>

HMW DNA size distribution extracted with Nanobind and MagAttract on the Femto Pulse system (Agilent Technologies).

KEY REFERENCES
1. Nanobind CBB kit — Guide & overview
2. Nanobind tissue kit — Guide & overview
3. Nanobind plant nuclei kit — Guide & overview
4. Procedures and checklists for different sample types
5. Technical note: Sample preparation for PacBio HiFi sequencing from human whole blood

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