**Clarification Technologies Matrix**

This positioning matrix is a general guide to help you select the recommended clarification technology for your process. The selection criteria are: percent Wet Cell Weight (%WCW) and bioreactor volume. The recommended Double Layer (DL) filter grade is also given for single step and two step clarification processes.

<table>
<thead>
<tr>
<th>WCW</th>
<th>3%</th>
<th>8%</th>
<th>&gt;8%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Density (×10⁶ cell/mL)</td>
<td>10</td>
<td>20</td>
<td>&gt;20</td>
</tr>
</tbody>
</table>

*Volume ranges are dependant on cell & molecule characteristics. Intended as guideline only.*

**Two Step Clarification**
- **Step I:**
  - DL 90
  - DL 75
  - or standard centrifugation
- **Step II:**
  - DL 20
  - DL 10

**One Step Clarification**
- DL 60

**Two Step Clarification**
- Ksep® 6000S
- Ksep® 400

**One Step Clarification**
- Sartoclear® Depth Filter Cassettes
- Sartoclear® Depth Filter Midscale Cassette
- Sartoclear® Depth Filter Caps

**Two Step Clarification**
- Ksep® centrifugation followed with Sartoclear® Depth Filter