Vivapure 8-to-96 well cobalt-chelate kit for His-tagged* protein purification

**HT-Purification in modular format**

**Ready-to-use**
The kit consists of ready-to-use Vivapure 8-strips prepacked with a cobalt-chelate membrane for protein purification. Vivaclear plus 8-strips for lysate filtration and eluate collection plates are also included.

**IMAC membrane technology**
Purification is achieved by Immobilized Metal Chelate Chromatography (IMAC): Poly-histidine tagged proteins bind specifically to the Co-chelate membrane.

**Modular and cost-convenient**
The modular 8-strip format allows flexible and automated handling of different sample numbers.

**Parallel processing**
With Vivapure Metal Chelate strips multiple samples can be processed in parallel.

**Highly reproducible**
The prepacked membrane format assures highly comparable well-to-well performance.

**Simple steps, easy handling**
The innovative membrane technology enables easy sample handling in simple and fast centrifugation steps.

**Technical data in brief:**
- Binding capacity up to 250 µg
- Protein purity and recovery > 85%
- Loading volume up to 500 µl

*protected by patents of third parties

Special introductory offer*
Please contact your local Vivascience sales rep or distributor for further details.
*Valid until 31.03.2005

Codevelopment by Protagen and Vivascience
High-throughput purification of His-tagged proteins

<table>
<thead>
<tr>
<th>Step</th>
<th>Description and Lysate</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Protein Expression and Lysate</td>
<td>Grow <em>E. coli</em> cultures and induce protein expression. Harvest cells, lyse by freeze/thawing followed by lysozyme treatment and sonication. Native or denaturing conditions.</td>
</tr>
<tr>
<td>2.</td>
<td>Clearing</td>
<td>Remove precipitates and debris by filtration through the supplied Vivaclear plus 8-strips.</td>
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<tr>
<td>3.</td>
<td>Equilibration</td>
<td>Adjust salt and pH conditions on the membrane with Lysis Buffer.</td>
</tr>
<tr>
<td>4.</td>
<td>Sample loading and Binding</td>
<td>Load samples onto single wells of Vivapure Co-chelate 8-strips. Centrifuge, discard flow-through: His-tagged proteins are retained by the Co-chelate membrane.</td>
</tr>
<tr>
<td>5.</td>
<td>Washing</td>
<td>Remove non-specifically bound proteins with Washing Buffer. Centrifuge as above.</td>
</tr>
</tbody>
</table>

Effective and reproducible protein purification with the Vivapure 8-to-96 well cobalt-chelate kit

**Effective purification of target His-tagged proteins (→) from *E. coli* lysates.**

Three independent samples were processed according to the supplied protocol. Aliquots of each cleared lysate (L), flow-through (FT) and eluate (E) were analyzed by SDS-PAGE and Coomassie Blue staining.

<table>
<thead>
<tr>
<th>Lanes</th>
<th>M: Molecular weight marker</th>
<th>1, 2, 3: Sample 1; L, FT and E, respectively</th>
<th>4, 5, 6: Sample 2; L, FT and E, respectively</th>
<th>7, 8, 9: Sample 3; L, FT and E, respectively</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M: Molecular weight marker</td>
<td>1 to 25: Eluates from 25 independent wells</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Well-to-well reproducible purification.**

One single *E. coli* lysate was independently processed in 25 randomly selected wells according to the supplied protocol. Aliquots of each eluate were analyzed as described in A.

| Lanes | M: Molecular weight marker | 1 to 25: Eluates from 25 independent wells |

**Vivapure 8-to-96 well cobalt-chelate kit**

- **Cat. No.:** VS-HT08CC02
- **Vivapure Co-chelate 8-strips:** 24 (+2 frames for 2 plates)
- **Vivaclear plus 8-strips:** 24 (+2 frames for 2 plates)
- **96-well collection plates:** 8
- **Seals:** 2
- **Instruction manual:** 1

**Flexible modular design - adapts to sample number**

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