

NEW!

VIVASCIENCE
sartorius group

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



His_n

Special introductory offer*

*Please contact your local Vivascience sales rep
or distributor for further details.*

**Valid until 31.03.2005*

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



Codevelopment by Protagen and Vivascience

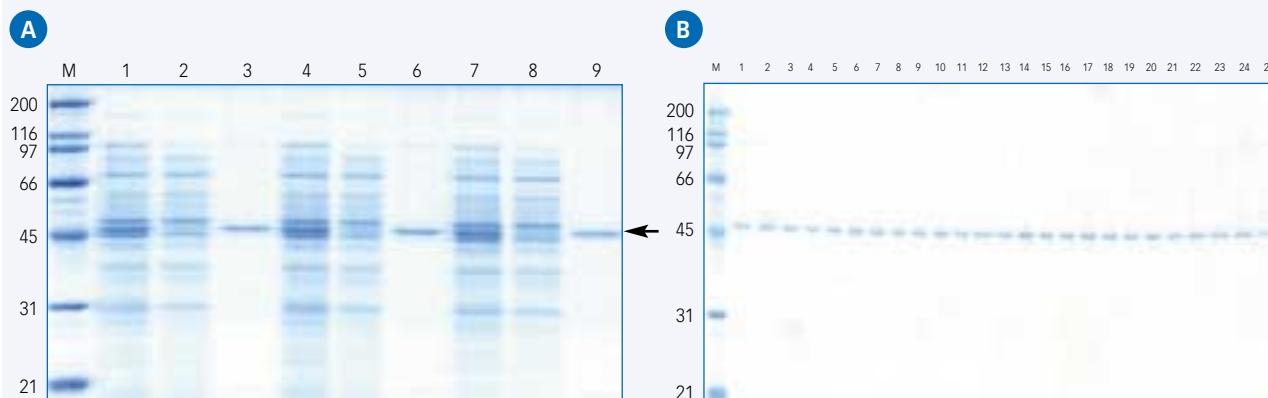
*protected by patents of third parties

PROT@GEN[®]

High-throughput purification of His-tagged proteins

Step	Description	Procedure
1.	Protein Expression and Lysis	Grow <i>E. coli</i> cultures and induce protein expression. Harvest cells, lyse by freeze/thawing followed by lysozyme treatment and sonication. Native or denaturing conditions.
2.	Clearing	Remove precipitates and debris by filtration through the supplied Vivaclear plus 8-strips.
3.	Equilibration	Adjust salt and pH conditions on the membrane with Lysis Buffer.
4.	Sample loading and Binding	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.
5.	Washing	Remove non-specifically bound proteins with Washing Buffer. Centrifuge as above.
6.	Elution	Elute purified His-tagged proteins with 150 µl Elution Buffer. Centrifuge as above.

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.

Lanes

M: Molecular weight marker

1, 2, 3: Sample 1; L, FT and E, respectively

4, 5, 6: Sample 2; L, FT and E, respectively

7, 8, 9: Sample 3; L, FT and E, respectively

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

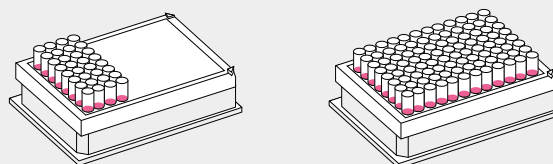
M: Molecular weight marker

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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