



Biotin Capping Kit 60 Reactions

List of components

The Biotin Capping Kit allows the masking of endogenously biotinylated proteins (e.g. carboxylases). Using the Biotin Capping Kit before capturing prevents the binding of endogenously biotinylated proteins that naturally occur in complex samples to the streptavidin magnetic beads. As the result, the entire bead capacity is available for binding of Capture Compound protein conjugates. Subsequently, LC-MS/MS analysis is improved by the reduction of the background proteins.

ID	Component	Amount	Composition
2-9015-050	Streptavidin	0.7 ml	Water
2-9010-050	Biotin	1.0 ml	Water, NaOH, pH 7.0

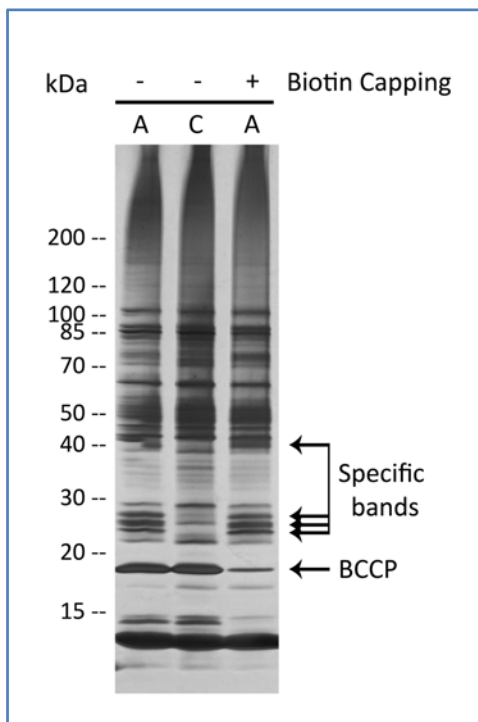
Note: The streptavidin and the biotin solution need to be completely thawed before usage. It is recommended to aliquot the solutions upon arrival to avoid multiple freezing/thawing cycles of the stock solution.

Storage notification

ID	Component	During shipment (max. 3 days)	After receipt
2-9015-050	Streptavidin	4 to 8 °C	- 20 to -18 °C
2-9010-050	Biotin	4 to 8 °C	- 20 to -18 °C

Specified Functionality

In SDS-PAGE of proteins captured OffBead in *E. coli* lysate using the SAH caproKit™, the prominent band that corresponds to the biotin carboxyl carrier protein of acetyl-CoA carboxylase, BCCP, is largely diminished when using the Biotin Capping Kit before capturing, while the specific bands (present in Capture Compound assay (A) but not in SAH competition control (C)) are still remaining.



A: Capture assay SAH Capture Compound in *E. coli* lysate

C: Control of "A" using 2 mM SAH as competitor

BCCP: Biotin carboxyl carrier protein

Figure 1: SAH-capture assay according to the SAH caproKit™ guideline without (-) and with (+) applying the Biotin Capping Kit to the *E. coli* lysate before capturing. Capture Compound assay (A) and SAH competition control (C) analyzed by SDS-PAGE/silver stain.

Stability

The Biotin Capping Kit is stable under storage conditions for 6 months. After first use microbial contamination may occur.

Please read the material safety data sheet for this product at www.caprotec.com

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Head of Quality Control

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CCMS technology is made available as ready to use caproKit reagents and services.

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