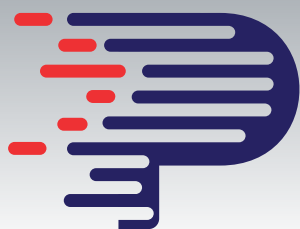


Short Protocol for Proteios HEP Purification Kit



Introduction

Proteios' High-Expressed Protein (HEP) Purification Kit is based on the interaction between the Proteios Car9 affinity tag and the Proteios HEP Resin.

The target protein of interest (POI) can be expressed with a Proteios Car9 tag at either the N-terminal or C-terminal position. Car9-tagged POI binds to the Proteios HEP Resin and can be released with the addition of the Proteios HEP Elution Buffer.

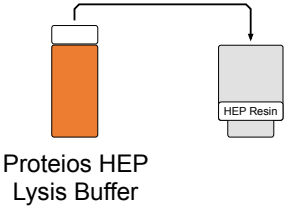
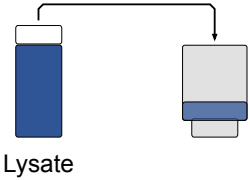
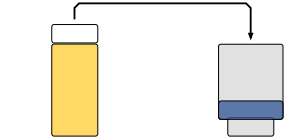
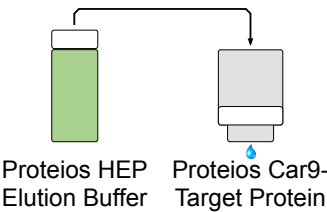
HEP purification kit has the unique propriety to be designed with Car9 technology and outperforms the traditional methods for protein purification using analog columns and resins.

Up to 8mg of protein can be purified in about 30 minutes with an average purity > 98% and a POI's concentration in the eluate up to 1mg/mL using only one chromatography step and without the use of toxic metal ions or toxic reagents.

Kit Components

Description	Size
Proteios HEP Column containing Proteios HEP Resin	10 gravity columns
Proteios HEP Lysis Buffer	150mL
Proteios HEP Wash Buffer	250mL
Proteios HEP Elution Buffer	100mL

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 <p>Proteios HEP Lysis Buffer</p>	<p>1. Equilibrate the column Add 6mL of Proteios HEP Lysis Buffer to the column and discard the flow through.</p>
 <p>Lysate</p>	<p>2. Load lysate on the column Load up to 8mL of lysate to the column and incubate the lysate with Proteios HEP resin for 5 minutes at room temperature.</p>
 <p>Proteios HEP Wash Buffer</p>	<p>3. Wash Wash the column with 8mL of Proteios HEP Wash Buffer three times and discard the flow through.</p>
 <p>Proteios HEP Elution Buffer Proteios Car9-Target Protein</p>	<p>4. Elution Add 4mL Proteios HEP Elution Buffer to the column. The Proteios Car9-tagged protein is collected in the eluate.</p> <p>Repeat elution step another time to recover the remaining Proteios Car9-tagged protein.</p>
	<p>5. Dialysis and concentration Proceed to dialyze and/or concentrate the purified protein of interest.</p>

For the full protocol and other protocols go to www.proteios.com/resources