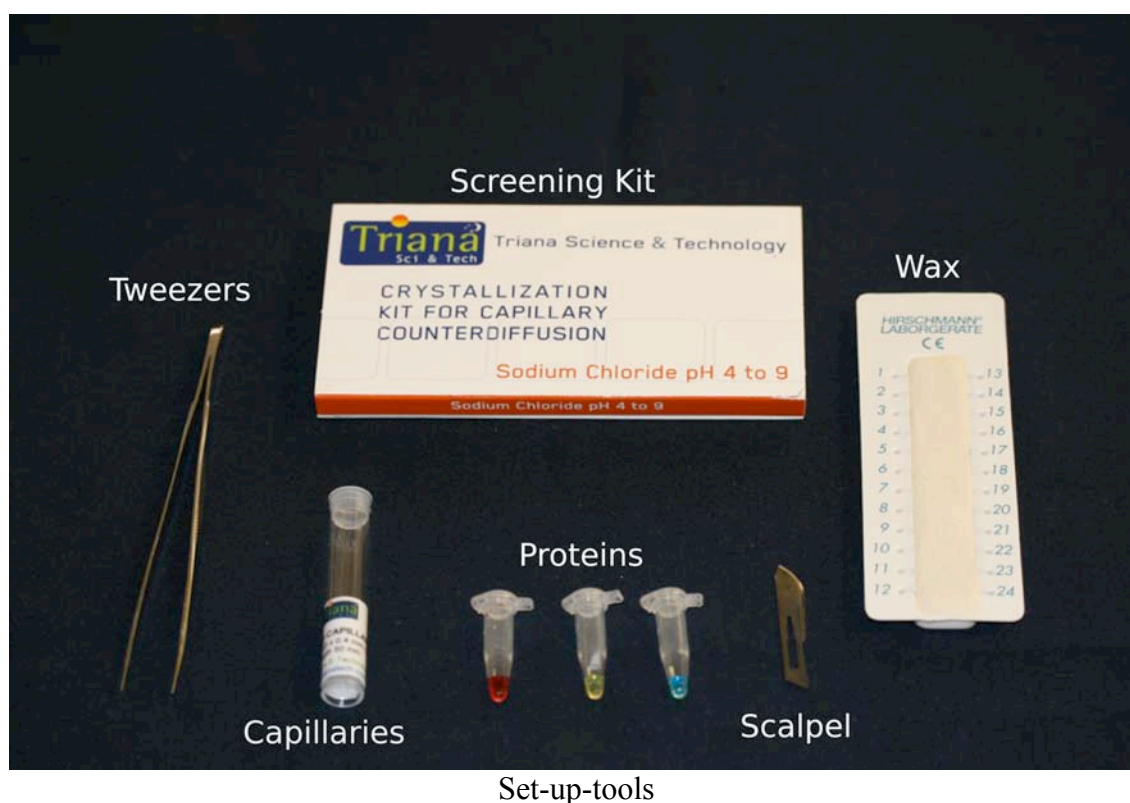


**PROTOCOL 1: CD using pre-filled GCB-Domino****Counterdiffusion using the commercial pre-filled GCB-Domino.**

The pre-filled GCB-Domino can be used for the initial screening or for crystal improvement.

While the **GCB-CSK** is intended only for initial screening (with capillary of 0.1 mm inner diameter), the **CCD** can be use for both, initial screening and crystal improvement.

**How to prepare the macromolecular solution**

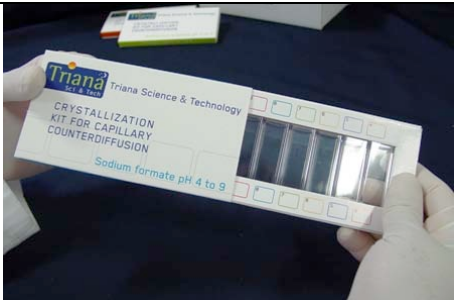




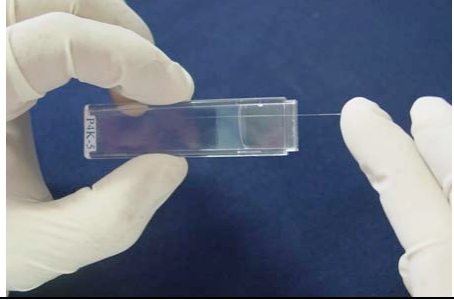


Prepare your macromolecular solution as pure as possible and use it after microfiltration. We recommend the use of a protein concentration of 5 to 10 mg/ml preferentially in water or alternatively in a buffered solution at buffer concentration smaller than 50mM. Initially, the sample should be free of any unnecessary additives in order to observe the effect of the precipitants in the kits.

Note:

We recommend testing two protein concentrations per protein (two capillaries in each box).

## STEP BY STEP

## How to perform the screen

	
<p>Select the kit you wish to use among the available GCB-Domino screening kits and have ready the material you will, i.e. the protein solutions, the capillaries (0,1 mm <math>\phi</math>) and the sealing putty</p>	
	
<p>Take one GCB and cut the aluminium seal from top of the box. Dip one capillary into the protein solution. The protein solution will rise by capillarity and the capillaries will be filled.</p>	
	
<p>Seal the upper end with the putty. Dip the filled capillary into the GCB-Domino. Just punch the unsealed end of the capillary across the gel located on top of the precipitant.</p>	
	
<p>Repeat the sequence with other capillaries filled with your protein solution at different concentration or with selected additive like divalent metals or detergents. Close the GCB-Domino with its black tap. Repeat the procedure with the remaining five boxes. We suggest you to relocate the six boxes in the cardboard frame.</p>	