

## Granada Crystallization Box<sup>®</sup>

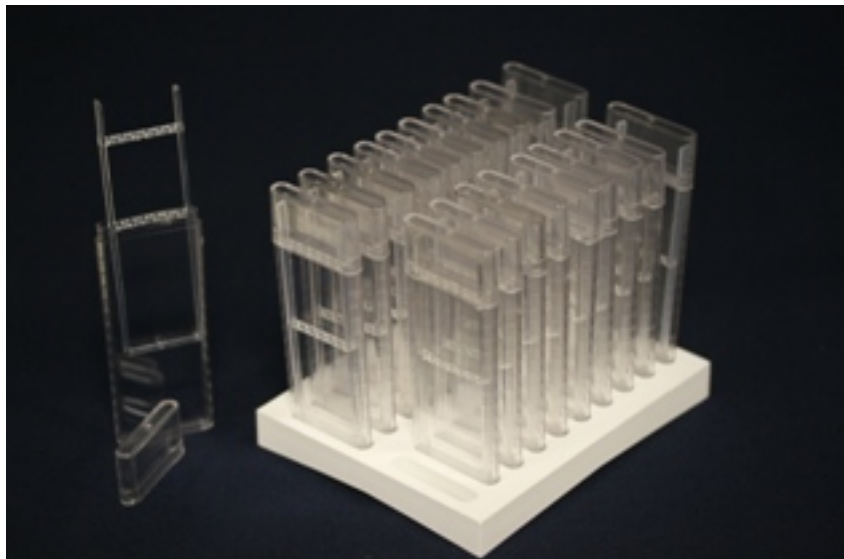
### FOR PROTEIN CRYSTALLIZATION

**Granada Crystallization Box<sup>®</sup> (GCB)** is a simple device to crystallize protein and other biological macromolecules by counter-diffusion method.

#### **GCB**

consists of 4 elements made of polystyrene:

- A reservoir to introduce the gel



- A guide to hold capillaries
- A cover
- A holder to maintain the boxes

The **GCB** has been designed to be used in four different ways:

- To grow crystals inside gels under diffusion controlled mass transport.
- To grow protein crystals inside capillaries with un-gelled precipitating agent by the counter-diffusion technique.
- To grow protein crystals inside capillaries with gelled precipitating agent by

the counter-diffusion technique.

- To grow protein crystals inside capillaries by the batch method.

### Main characteristics:

- Crystallization is performed under diffusion-controlled mass transport.

The role of viscous fluids, gels and/or micro-gravity is enhanced by using capillary volumes.

- Reduces the consumption of macromolecule:

From 500 nanoliters to 100 nanoliters of protein solutions depending on the inner diameter of the capillaries.

- Automatically searches for the optimal crystallization conditions:

One capillary scans the same precipitation region than hundreds of drops.

- Easy and safe transport to x-ray diffraction facilities

Transport your precious crystals in your pocket!

- Full visualization of the crystallization process
- *In situ* x-ray crystallography:

Crystals grow inside x-ray capillaries

If desired, no handling of crystals

Usable for cryo-crystallography

Triana Science & Technology offers **GCBs** in packages of 20 boxes

Reference

Price per package

GCB - A - 20

130 €

User guide of **Granada Crystallization Box<sup>®</sup> (GCB)**: □ □ □



To make an order, just send us an email to [triana@trianatech.com](mailto: triana@trianatech.com) with a list of the required products and services you need or from the menu "orders".

### References

1. J.M. García-Ruiz, Counterdiffusion Methods for Macromolecular Crystallization. *Methods in Enzymology*, Vol. 368 (2003) 130-154.
2. Granada Crystallisation Box: a new device for protein crystallisation by counter-diffusion techniques. Garcia-Ruiz JM, Gonzalez-Ramirez LA, Gavira JA, Otalora F. *Acta Crystallogr D Biol Crystallogr*. 2002 Oct;58 (Pt 10 Pt 1):1638-42.