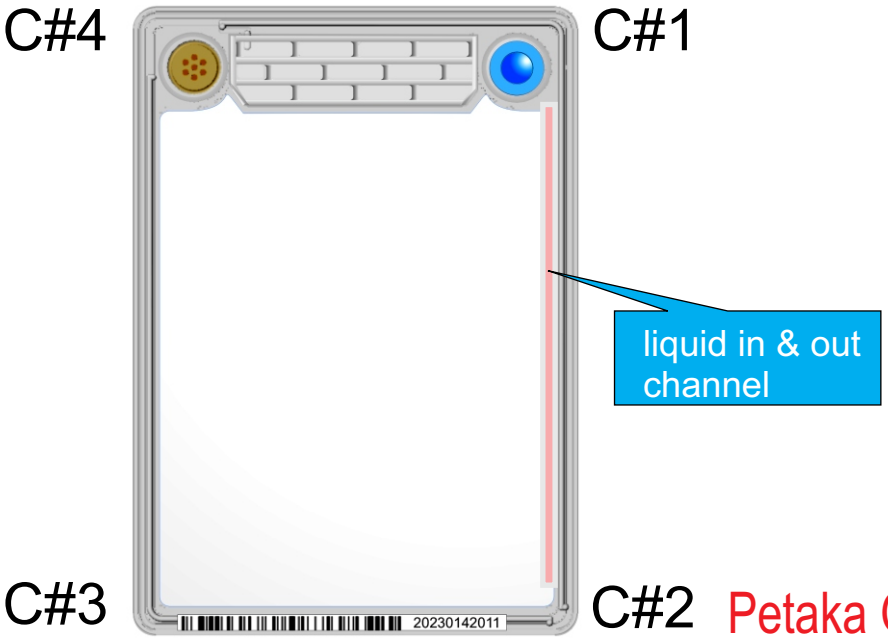
Celartia

Transforming the art of cell culture into scientific engineering

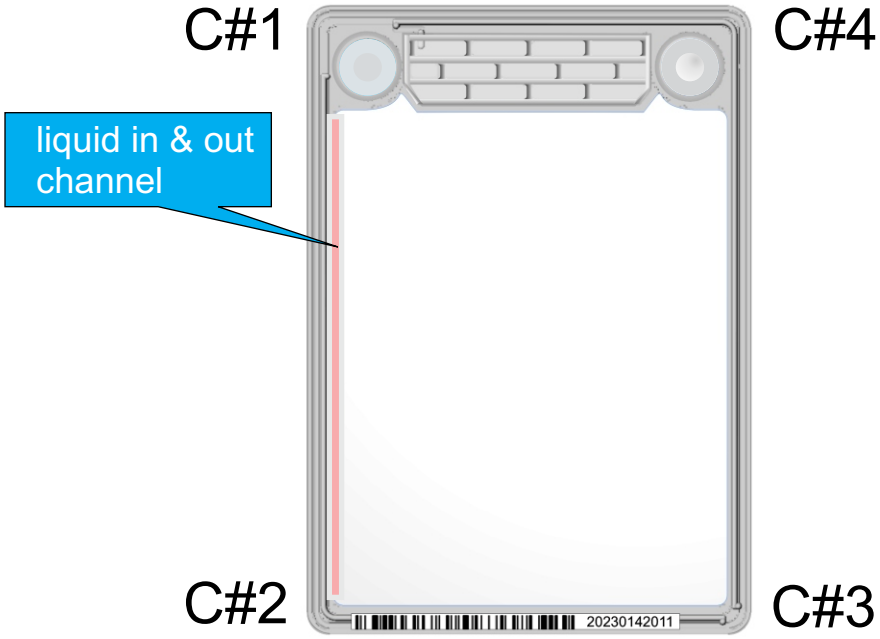
PETAKA G3 CENRIFUGATION

Petaka G3 has a microchannel that connects the port with the corner C#2 of its internal camera. For this reason, when a liquid is injected through the port, the inner chamber will be filled by the C#2 corner, regardless of the position of the Petaka. In the same way when liquid is extracted from the Petaka, its output is always at the C#2 corner of the camera.

Petaka G3 front view and corner numbers

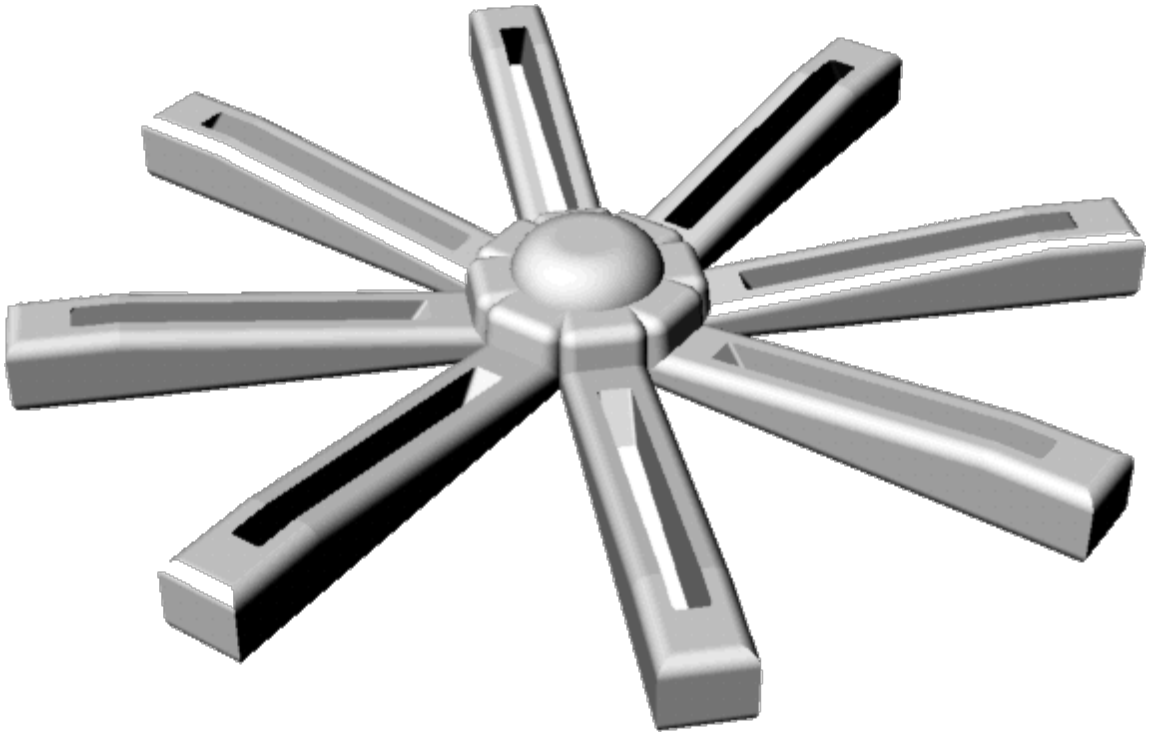


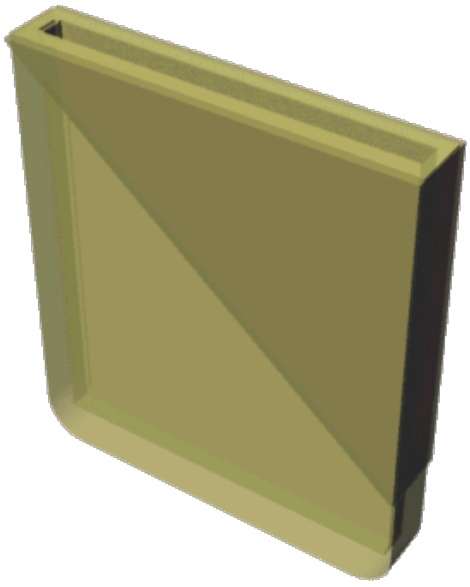
Petaka G3 back view and corner numbers



The Petaka centrifuge

1.- **The rotor**.- Celartia has developed a special rotor that carries eight Petakas in vertical position, inserted in buckets, in which Petaka fits, holding them in the **preset centrifugation angle .**

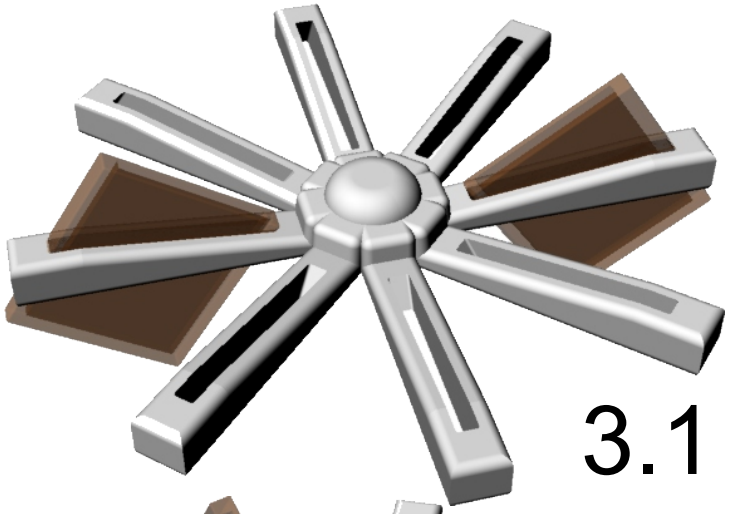




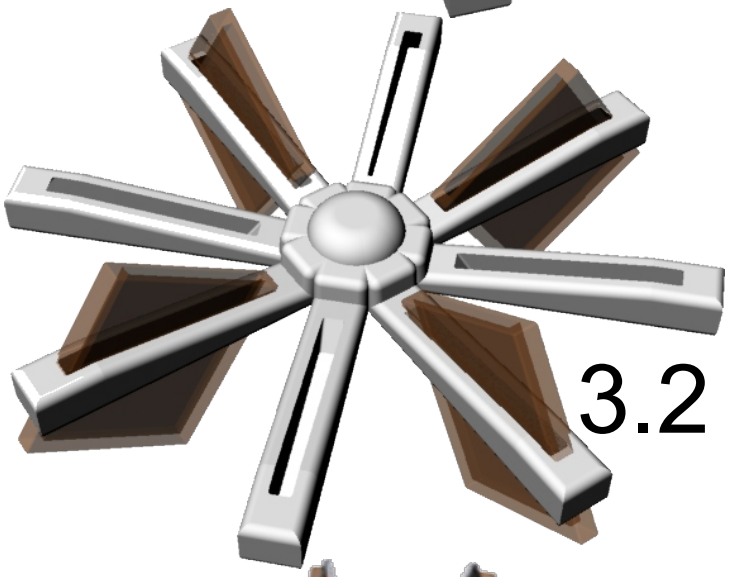
2.- The buckets.- Check that all buckets are empty, clean and dry, and that all are of the same lot or that their weight is identical.

The Petaka centrifuge
Buckets instillation

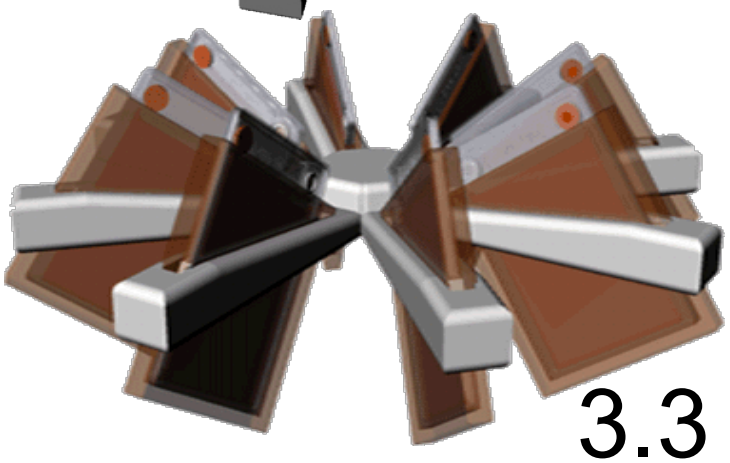
3.- You can install 2, 4 or 8 buckets on the rotor to ensure the balance of rotation at high speeds, and avoid vibrations. In case of 2, they should be placed on the same axis in the opposite arms (fig 3.1). In the case of four, they must be installed crosswise (fig 3.2). And eight will occupy all available slots (fig 3.3).



3.1



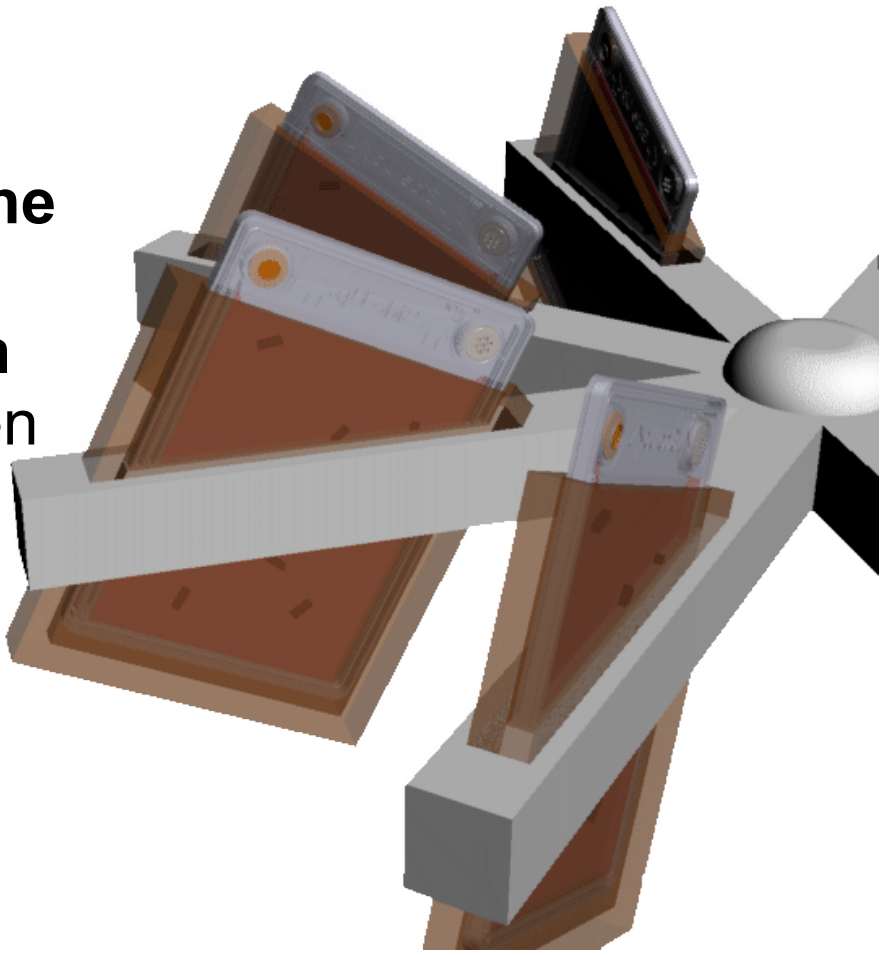
3.2



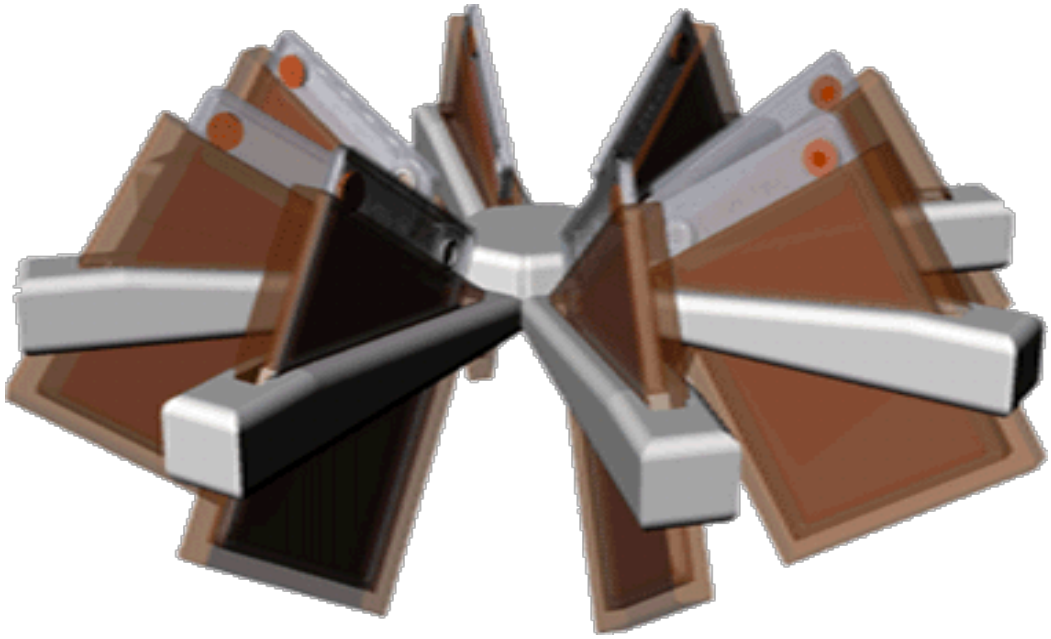
3.3

The Petaka centrifuge
Petaka units instillation

4.- First Weigh the Petakas before installing them in the bucketsl. Then nsert the Petakas into the buckets.



5.-Balance the weight didtribution



6. With a pipette and a 1000 µl tip, inject 600 µl of bi-destilled water between the Petaka and the wall of the bucket (each side). Maintaining the weight balance. The water helps maintaining the pressure balance between the inside and outside of the Petaka when centrifuged at more than 300 g (>1300 rpm of Petaka rotor) , also softens the extraction of Petaka from the bucket after

7.- **Centrifugation options**. According to what you want to extract from the Petakas they will be placed in one or another position in the buckets before centrifugation

If you want to obtain the cells concentrated, the port will be placed in the highest position (fig. 7.1).. But if you want to withdraw the medium without cells, the Petaka will be placed so that the port is in the lowest position (fig. 7.2).
After centrifugation in the position as fig. 7.1, the cells will be concentrated at the end of the extraction channel (corner C#2), in the right point to be withdrawn directly.
After centrifugation in position as fig. 7.2, the cells will be concentrated at the neutral corner of the chamber (corner C#3), in the right point to directly withdrawn the medium without cells..