

CHIP CLEANING KIT

Detergent- and enzyme-based solutions for manual cleaning of chips

Dynamic Biosensors GmbH & Inc.
CCK-1-1 v1.1



Product Description

Order Number: **CCK-1-1**

Table 1. Contents and Storage Information

Material	Cap	Amount	Storage
Cleaning Solution 1 (detergent-based)	Transparent	1 mL	RT
Lyophilized Enzyme Powder	Red	5 mg	2-8°C
Tris-HCl Buffer (reconstitution buffer)	Transparent	1 mL	2-8°C

The **heliX^{cyto}** Chip Cleaning Kit contains Cleaning Solution 1 and Cleaning solution 2 for manual cleaning of the **heliX^{cyto}** chip outside of the **heliX^{cyto}** device.

For research use only.

This product has a limited shelf life, please see expiry date on label.

Reconstitution

The Cleaning solution 2 has to be **reconstituted prior first use** by dissolving the 5 mg lyophilized enzyme powder in 1 mL of Tris-HCl reconstitution buffer.

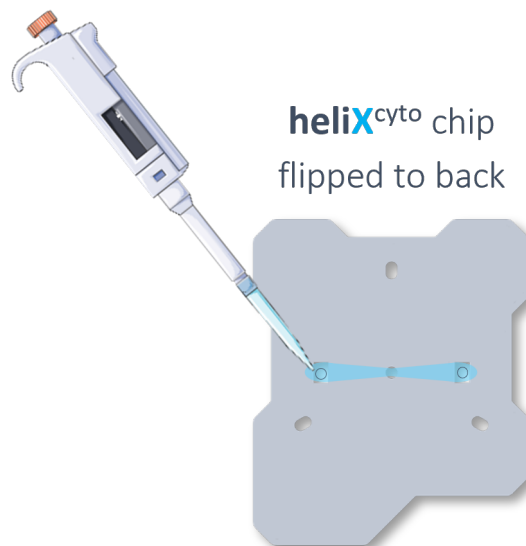
Reconstituted Cleaning solution 2 should be **aliquoted** (10 – 100 µL volumes) and stored at -20 °C.

Cleaning solution 1 is ready-to-use and does not require any preparation.

Application Note

Manually cleaning **heliX^{cyto}** chips extends their lifetime. This can be performed by injecting cleaning solutions into the microfluidic channel of the chip with a pipette. To reduce the introduction of dust particles into **heliX^{cyto}** chips during manual handling and optimally wash out cell remnants it is recommended to:

- wear gloves when handling chips
- only use freshly filtered buffers
- always inject solutions into the entry port on the left side of the flipped chip



heliX^{cyto} chip cleaning protocol

- Fill the microfluidic channel with **10 µl fresh Cleaning solution 2**
- Seal** chip in- and outlet with clear sticky tape (e.g. Sellotape™, do not use tape that leaves glue remnants)
- Incubate at least 20 min at RT (or longer, e.g. overnight)
- Wash microfluidic channel 3 x with **10 µl Cleaning solution 1**
- Wash microfluidic channel 3x with **10 µl water** (Milli-Q or similar)
- Empty chip by pipetting 10 µl air.

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Instruments and chips are engineered and manufactured in Germany.
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