heliXcyto CCK-1-1 Dynamic Biosensors

heliXcyto CCK-1-1 Dynamic Biosensors User Manual

Contents

heliXcyto

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Specifications

- **Product Name:** heliXcyto Chip Cleaning Kit
- **Order Number:** CCK-1-1
- **Contents:**
  - Cleaning Solution 1 (detergent-based) – 1 mL
  - Lyophilized Enzyme Powder – 5 mg
  - Tris-HCl Buffer (reconstitution buffer) – 1 mL
- **Storage Information:**
  - Cleaning Solution 1: Transparent Cap
  - Lyophilized Enzyme Powder: Red Cap

Product Usage Instructions

Reconstitution

- Follow the reconstitution instructions provided in the user manual for each component of the kit.

Application Note

Manually cleaning helicity chips extends their lifetime. To clean the chips, inject the cleaning solutions into the microfluidic channel of the chip using a pipette. To ensure effective cleaning:

1. Wear gloves when handling chips.
2. Use freshly filtered buffers only.
3. Inject solutions into the entry port on the left side of the flipped chip.

Chip Cleaning Protocol

- Refer to the detailed chip cleaning protocol provided in the user manual for step-by-step instructions on how to clean helicity chips using Cleaning Solutions 1 and 2.

Contact Information

- If you have any questions or need assistance, you can contact Dynamic Biosensors GmbH in Germany or Dynamic Biosensors, Inc. in the USA using the provided contact information.

FAQ

- **Q:** Can I use other cleaning solutions with the heliXcyto Chip Cleaning Kit?
- **A:** It is recommended to use only the provided Cleaning Solution 1 and Cleaning Solution 2 for optimal cleaning results and to maintain chip performance.
- **Q:** How often should I clean my helicity chips?
- **A:** The frequency of chip cleaning depends on usage. It is recommended to clean the chips regularly to ensure accurate and reliable results.

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 heliXcyto Chip Cleaning Kit contains Cleaning Solution 1 and Cleaning Solution 2 for manual cleaning of the heliXcyto chip outside of the heliXcyto device.
- For research use only.
- This product has a limited shelf life, please see the expiry date on the label.

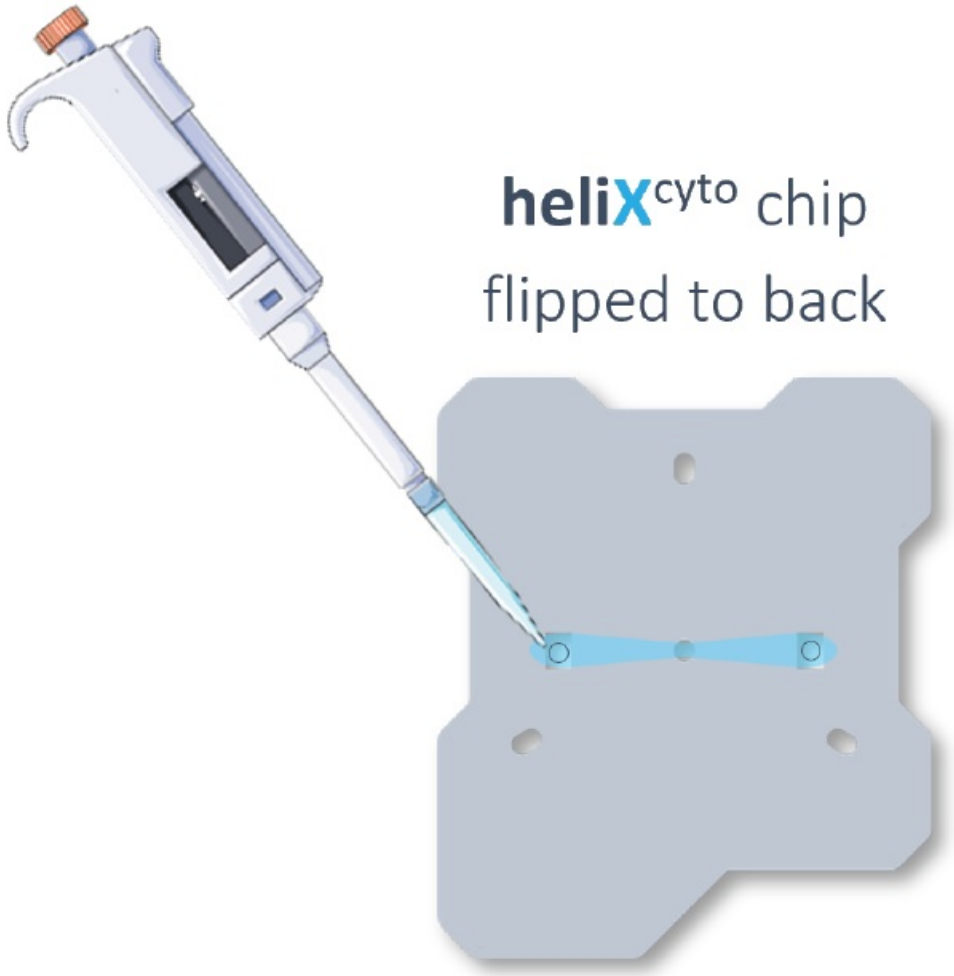
Reconstitution

- The Cleaning Solution 2 has to be reconstituted before 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 heliXcyto 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 heliXcyto 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



heliXcyto 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. SellotapeTM, do not use tape that leaves glue remnants)
- Incubate for at least 20 min at RT (or longer, e.g. overnight)
- Wash microfluidic channel 3 x with 10 µl Cleaning solution 1
- Wash the microfluidic channel 3x with 10 µl water (Milli-Q or similar)
- Empty the chip by pipetting 10 µl air.

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Documents / Resources

	heliXcyto CCK-1-1 Dynamic Biosensors [pdf] User Manual CCK-1-1 Dynamic Biosensors, CCK-1-1, Dynamic Biosensors, Biosensors

References

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