heliX cyto
User Manual

BRUKER
Biosensors

SYSTEM CHECK KIT

protocol for conducting QC of the **heliX**cyto device

Dynamic Biosensors GmbH
HK-QC-CY-1 v1.0

Key Features

The **heliX**[cyto] **System check** kit is designed to **evaluate the hardware components** of the device and conducts the following tests in sequence:

1. System wash
2. Three **Cyto Fluidic Tests** (**FT**) on the **heliX**® **Maintenance Chip**.
3. Three **scIC Kinetics Simulation** (**KS**) runs on the **heliX**® **Maintenance Chip**.
4. System wash

Workflow

Load new **heliX**® **Maintenance Chip** and second maintenance chip for cleaning	Load buffer bottles and ready-to-use vials	Run the **heliX**[cyto] **System Check** assay in **heliOS**	Export the data with **heliOS** and send to customer support. **support.dbs@bruker.com**

Product Description

Order Number: **HK-QC-CY-1**

Table 1. Contents and Storage Information

Product	Format	Volume	Amount	Storage
scIC FT solution for **heliX**^{cyto}	small glass vial, black cap	1 mL	5	-20°C
FT dye cell simulant	small glass vial, black cap	260 µL	1	-20°C
FT dye High	small glass vial, red cap	1 mL	1	-20°C
FT dye Mid	small glass vial, blue cap	500 µL	1	-20°C
FT dye Low	small glass vial, blue cap	500 µL	1	-20°C
Cleaning solution 1	big glass vial, white cap	10 mL	1	15 - 25°C
Cleaning solution 3	big glass vial, white cap	10 mL	1	15 - 25°C
ddH_2O	big glass vial, white cap	9 mL	1	-20°C
1x Running buffer 1 (RB 1)	PET bottle	500 mL	1	2-8°C

For research use only.

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

This kit is compatible with any **heliX**^{cyto} device and provides all the samples and buffer needed to conduct the experiment in ready-to-use format. Spare vials of scIC FT solution is included for any following tests, if required.

In addition, two new maintenance chips are required. One chip for measuring and a separate maintenance chip for device cleaning (Order No: ***MTC-0***).

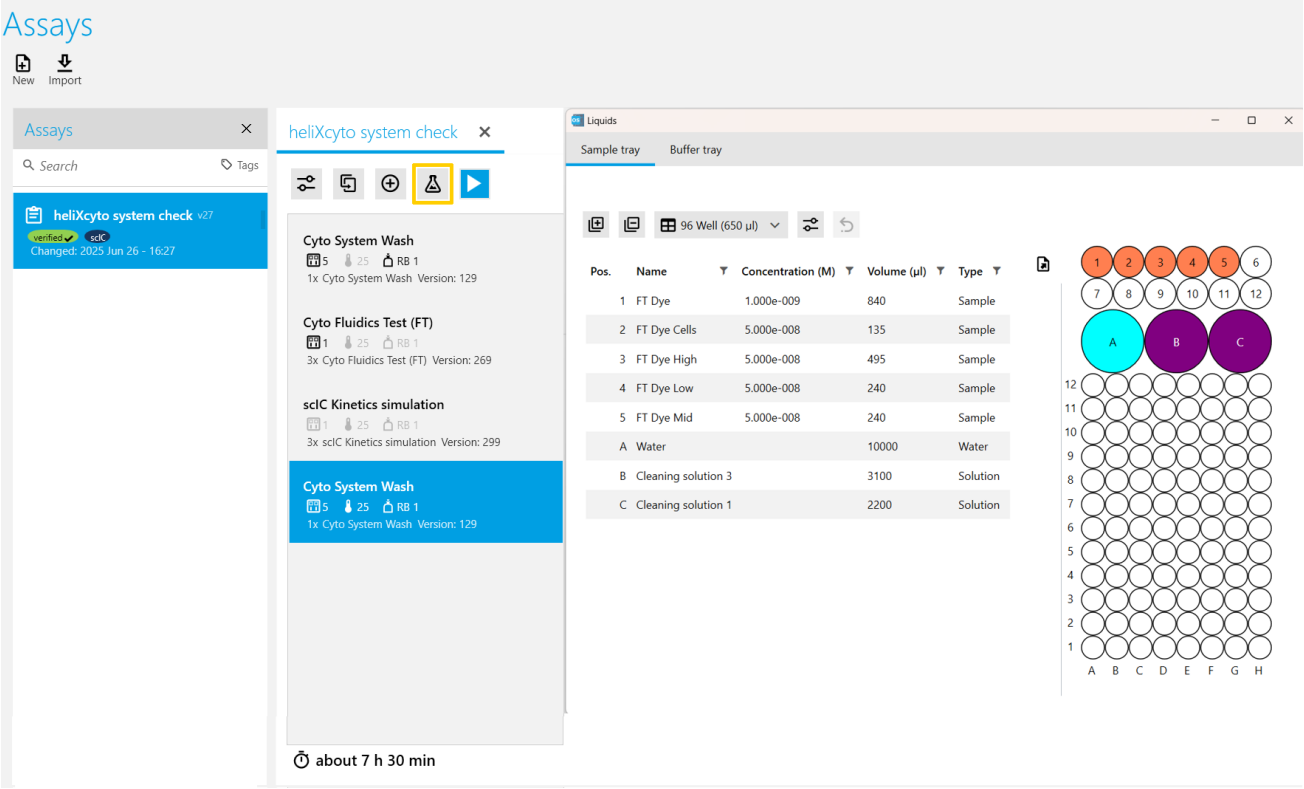
NOTE | *After thawing samples, vortex the vials thoroughly and loosen caps to prevent pressure buildup during aspiration.*

Assay Setup in heliOS

Before starting the assay, power cycle the **heliX®** device and ensure it is in a clean state. If needed, run a **Clean & Sleep** cycle followed by **Wake Up & Prime** with the included fresh buffer.

1. Go to **heliOS** > on the *Assay* page, use the search bar in the list of saved Assays and type **heliXcyto system check** (it is tagged as verified and as **sclC**, and it is not editable) > select it; no modifications are necessary.

NOTE | *If the assay does not appear, it means it has not been downloaded and imported yet. Please do so from the webshop under the description of this specific kit (**HK-QC-CY-1**) before proceeding further.*



2. Put buffer in the buffer tray and insert buffer lines 1 and 3 into the buffer, while leaving the line 2 in air. Click on the sample tray and insert the ready-to-use glass vials, as illustrated by the **heliOS Sample tray layout** (shown below).

IMPORTANT | *Remove the cap from supplied large glass vial containing DI water to prevent any potential cross-contamination.*
The new **heliX® Maintenance Chip** *must be placed in* **position 1** *of the chip tray, and* **heliX® Maintenance Chip** *for cleaning in* **position 5**.

3. Click on Start and follow the instructions displayed in **heliOS**. The experiment takes approximately **8 hours** and can be performed over-night. Once completed, please export the experiment and send the resulting zip file to **support.dbs@bruker.com** for final evaluation.

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Instruments and chips are engineered and manufactured in Germany.

For Research Use Only. Not for use in clinical diagnostic procedures.