BRUKER HK-QC-1 Dynamic Biosensors HeliX Plus Device User Manual

Contents [hide]

Key Features

The helix System check kit is designed to evaluate the hardware components of the device and conducts the following tests in sequence:

1. Three fluidic tests (FT) on the helix Maintenance Chip.
2. Two helix Adapter Chip test (CT).
3. Three binding kinetics tests (KT) of a DNA analyte (7mer oligonucleotide) to its corresponding ligand (DNA-overhang) at 25°C.

Workflow

Load heliX Adapter Chip and heliX Maintenance Chip

Load buffer bottles, ready to-use vials and a ready touse 96-well plater

Run the heliX+ System Check assay in heliOS

Interpret the data with heliOS automatic analysis

Product Description

Order Number: HK-QC-1″

Table 1. Contents and Storage Information

Product	Format	Volume	Amount	Storage
Test & Standby solution	small glass vial, blue cap	400 µL	1	-20°C
Regeneration solution	small glass vial, black cap	1 mL	1	-20°C
Passivation solution	big glass vial, white cap	9 mL	1	-20°C
Fluidic and Kinetic Test Kit	96 well plate with sealing foil		1	-20°C
FT solution for heliX+	10 mL glass vial with white cap	9 mL	1	-20°C
Buffer PE140	PET bottle	250 mL	1	2-8°C
Buffer TE40	PET bottle	250 mL	1	2-8°C
heliX® Adapter Chip			1	-20°C

heliX® Maintenance Chip			1	RT

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

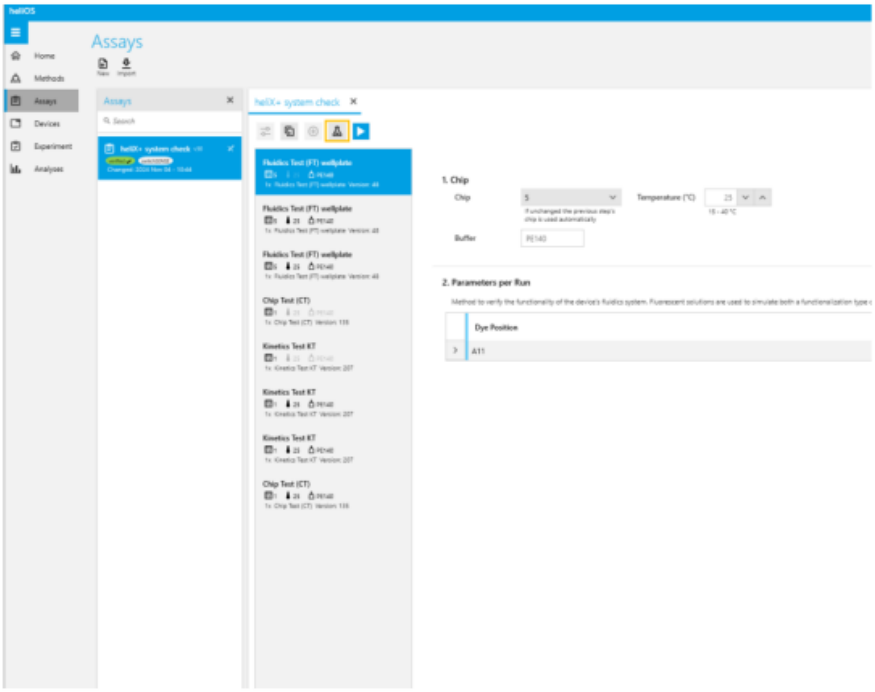
NOTE: An additional vial with 10 mL DI water is needed for the assay.

This kit is compatible with any heliX device and provides all the materials needed to conduct the experiment in ready-touse vials and a 96-well plate. Additionally, it includes buffers at the correct dilution and the necessary chips. An extra large vial of FT solution is also included for any additional fluidic tests that may be required. Please, in case of usage,vortex the vial after thawing.

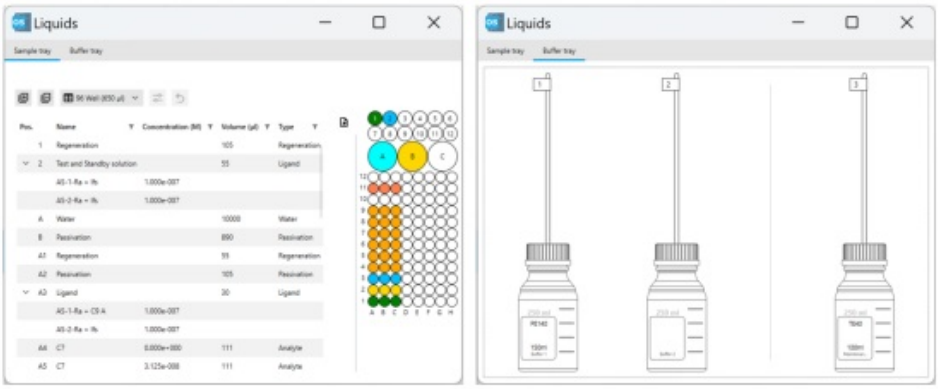
Assay Setup in heliOS

IMPORTANT: 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 fresh solutions.

1. Go to heliOS > on the Assay page, click the search function and type heliX+ system check (it is tagged as verified and as switch SENSE", 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-1**) before proceeding further.



2. Click on the sample tray and arrange the buffers, the ready-to-use glass vials, and the 96-well plate as illustrated by the heliOS wizard (shown below).
   IMPORTANT: The helix Adapter Chip must be placed in position 1 of the chip tray, and the helix Maintenance Chip in position 5.
   The 96-well plate should be thawed at room temperature for 1 hour, ideally with gentle shaking



3. Click on Start and follow the instructions displayed in heliOS. The experiment takes approximately 4 hours. Once completed, please export the results and send them to support.dbs@bruker.com for final evaluation.
   IMPORTANT: The large glass vial containing the water should remain without a lid to prevent any potential cross-contamination.

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Order Information

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Technical Support

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Documents / Resources

	BRUKER HK-QC-1 Dynamic Biosensors HeliX Plus Device [pdf] User Manual HK-QC-1, HK-QC-1 Dynamic Biosensors HeliX Plus Device, Dynamic Biosensors HeliX Plus Device, Biosensors HeliX Plus Device, HeliX Plus Device

References

- User Manual

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Biosensors HeliX Plus Device, BRUKER, Dynamic Biosensors HeliX Plus Device, HeliX Plus Device, HK-QC-1, HK-QC-1 Dynamic Biosensors HeliX Plus Device

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