

dynamic BIOSENSORS AS-2-Rc Fully Automated Laboratory Analysis System User Manual

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dynamic BIOSENSORS AS-2-Rc Fully Automated Laboratory Analysis System



Specifications

• Product Name: heliX+ ADAPTER STRAND 2 with red dye Rc

• Manufacturer: Dynamic Biosensors GmbH & Inc.

• Model: AS-2-Rc v5.1

· Key Features:

• 2 spots with 2 different anchor sequences for DNA-encoded addressing.

Order Number: AS-2-RcConcentration: 400 nM

• Storage: White cap, please see expiry date on label. Avoid many freeze-thaw cycles by aliquoting the nanolever.

Product Usage Instructions

Preparation | MIX&RUN

- 1. Mix Adapter strand 1 Rc (400 nM) and conjugated Ligand strand with ligand 1 (500 nM) at 1:1 ratio (v/v).
- 2. Mix Adapter strand 2 Rc (400 nM) and conjugated Ligand strand with ligand 2 (500 nM) at 1:1 ratio (v/v).
- 3. Incubate separately the two solutions of step 1 and 2 at room temperature at 600 rpm for 30 min to ensure complete hybridization.
- 4. Mix solutions of step 1 and 2 at 1:1 ratio (v/v). Solution is ready for biochip functionalization.

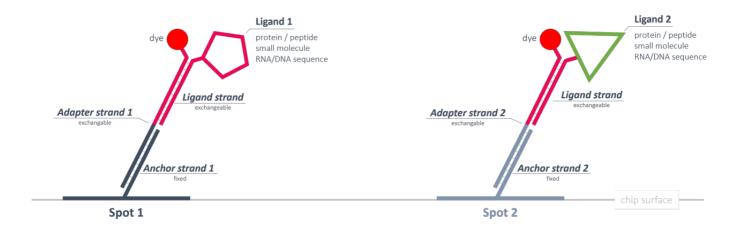
Key Features

- Adapter strand 2 for functionalization of heliX® Adapter Chip Spot 2.
- Compatible with heliX® Adapter Chip.
- · Includes Adapter strands for 50 regenerations.
- · Ideal for MIX&RUN sample preparation.

• Adapter strand 2 carries a hydrophobic red dye (Rc) with a neutral net charge.

heliX® Adapter Chip Overview

2 spots with 2 different anchor sequences for DNA-encoded addressing.



Product Description

Order Number: AS-2-Rc

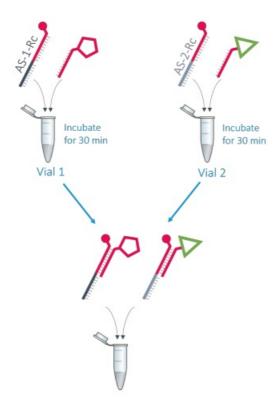
Table 1. Contents and Storage Information

Material	Сар	Concentration	Amount	Buffer	Storage
Adapter strand 2 - Rc	White	400 nM	5 x 100 μL	TE40 [1]	-20°C

- · For research use only.
- This product has a limited shelf life, please see expiry date on label.
- To avoid many freeze thaw cycles please aliquot the nanolever

Preparation | MIX&RUN

In-solution hybridization of adapter and ligand strands:



- 1. Mix Adapter strand 1 Rc (400 nM) and conjugated Ligand strand with ligand 1 (500 nM) at 1:1 ratio (v/v).
- 2. Mix Adapter strand 2 Rc (400 nM) and conjugated Ligand strand with ligand 2 (500 nM) at 1:1 ratio (v/v).
- 3. Incubate separately the two solutions of step 1 and 2 at RT at 600 rpm for 30 min to ensure complete hybridization.
- 4. Mix solution of step 1 and 2 at 1:1 ratio (v/v). Solution is ready to use for biochip functionalization. Stability of the solution is related to the stability of the ligand molecules.

Table 2. Additional material for functionalization of spot 1 and reference spot 2.

Material	Concentration	Buffer	Related Product Name	Order No
Adapter strand 1 - Rc	400 nM	TE40 [1]	Adapter strand 2 with red dye Rc	AS-1-Rb
Ligand strand carrying the conjugated ligand 1	500 nM	PE40 [heliX® Amine Coupling Kit 1	HK-NHS-1
Ligand strand carrying the conjugated ligand 2	500 nM	PE40 ^[2]	heliX® Amine Coupling Kit 1	HK-NHS-1

Example

Required volume for 3 functionalizations: 100 μL with a final concentration of 100 nM.

Vial 1		Vial 2		
Adapter strand 1 - Rc (400 nM)	Conjugated <i>Ligand strand</i> with ligand 1 (500 nM)	Adapter strand 2 - Rc (400 nM)	Conjugated <i>Ligand strand</i> + with ligand 2 (500 nM)	
25 μL	25 μL	25 μL	25 μL	

After incubation time, mix vial 1 and vial 2 to obtain 100 µL of ready-to-use DNA solution.

Contact

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Instruments and chips are engineered and manufactured in Germany.

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- 1. **TE40:** 10 mM Tris, 40 mM NaCl, 0.05 % Tween20, 50 μ M EDTA, 50 μ M EGTA
- 2. If the protein is not stable in PE40 (TE40, HE40), please check buffer compatibility with the switchSENSE® compatibility sheet.

www.dynamic-biosensors.com

FAQ

Q: What is the shelf life of the product?

A: The product has a limited shelf life, please refer to the expiry date on the label.

Q: How should I store the product to maintain stability?

A: Store the product with a white cap to avoid exposure to light. Avoid freeze-thaw cycles by aliquoting the nanolever.

Q: How should I prepare the solution for biochip functionalization?

A: Follow the MIX&RUN preparation steps provided in the user manual to prepare the solution for biochip functionalization.

Documents / Resources



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AS-2-Rc, AS-2-Rc Fully Automated Laboratory Analysis System, Fully Automated Laboratory Analysis System, Automated Laboratory Analysis System, Laboratory Analysis System, System, System

References

User Manual

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