dynamic BIOSENSORS AS-2-Ra-lfs Adapter Strand 2 User Manual

Contents

dynamic BIOSENSORS

dynamic BIOSENSORS AS-2-Ra-lfs Adapter Strand 2

Specifications:

- **Product Name:** heliX+ ADAPTER STRAND 2
- **Order Number:** AS-2-Ra-lfs
- **Key Features:**
  - 2 spots with 2 different anchor sequences for DNA-encoded addressing

Usage Instructions:

Preparation | MIX&RUN

1. Mix Adapter strand 1 – Ra (400 nM) and conjugated Ligand strand (500 nM) at a 1:1 ratio (v/v).
2. Incubate the solution of step 1 at room temperature at 600 rpm for 30 min to ensure complete hybridization.
3. Mix the solution of step 2 and Adapter strand 2 – Ra – lfs (200 nM) at a 1:1 ratio (v/v).
4. The solution is now ready to use for biochip functionalization. The stability of the solution is related to the stability of the ligand molecule.

FAQ

- **Q:** What is the shelf life of Adapter Strand 2 – Ra – lfs?
- **A**: This product has a limited shelf life, please see the expiry date on the label.
- **Q:** How should I store the product to maintain its stability?
- **A**: To avoid many freeze-thaw cycles, please aliquot the nanolever.
- **Q:** What are the contact details for Dynamic Biosensors?
- **A**: You can contact Dynamic Biosensors GmbH in Germany at Perchtinger Str. 8/10, 81379 Munich or Dynamic Biosensors, Inc. in the USA at 300 Trade Center, Suite 1400, Woburn, MA 01801. For ordering information, email order@dynamic-biosensors.com. For technical support, email support@dynamic-biosensors.com.

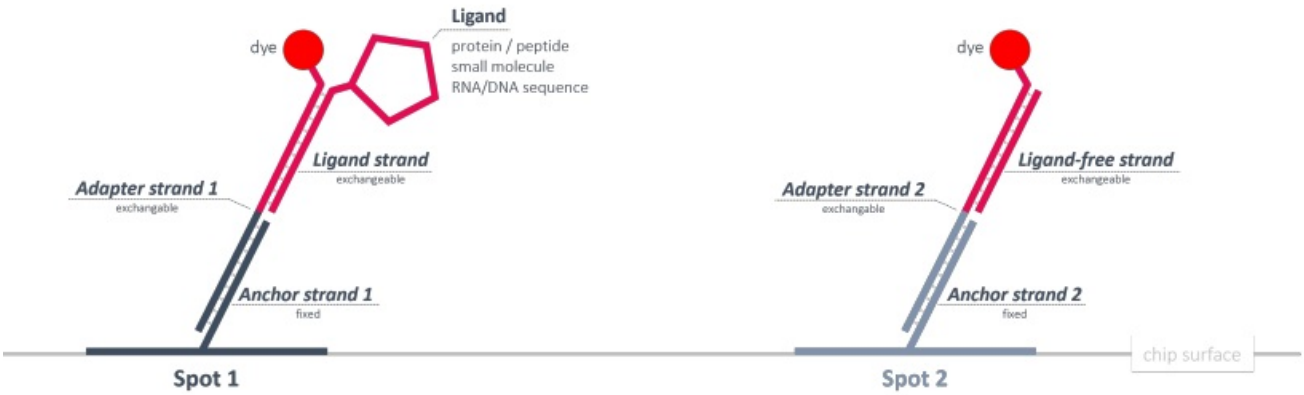
Key Features

- 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 moderately hydrophilic red dye (Ra) with a single positive net charge.

heliX® Adapter Chip Overview

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



Product Description

Order Number: AS-2-Ra-lfs
Table 1. Contents and Storage Information

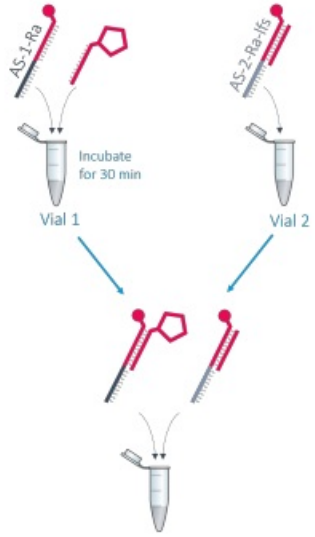
Material	Cap	Concentration	Amount	Buffer	Storage
Adapter strand 2 – Ra – lfs	White	200/250 nM	5 x 200 µL	TE40 [1]	-20°C

- For research use only.
- This product has a limited shelf life, please see the expiry date on the 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 – Ra (400 nM) and conjugated Ligand strand (500 nM) at a 1:1 ratio (v/v).
2. Incubate the solution of step 1 at RT at 600 rpm for 30 min to ensure complete hybridization.
3. Mix the solution of step 2 and Adapter strand 2 – Ra – lfs (200 nM) at 1:1 ratio (v/v).



The solution is ready to use for biochip functionalization. The stability of the solution is related to the stability of the ligand molecule.

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

Material	Concentration	Buffer	Related Product Name	Order No
Adapter strand 1 – Ra	400 nM	TE40 [1]	***Adapter strand 1*** with red dye **Ra**	AS-1-Ra
Ligand strand carrying the conjugated ligand	500 nM	P2] E40 [	**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 – Ra (400 nM)	Conjugated ***Ligand strand*** (500 nM)	***Adapter strand 2 – Ra – lfs*** (200/250 nM)
25 µL	25 µL	50 µL

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

Contact

Dynamic Biosensors GmbH

- Perchtinger Str. 8/10 81379 Munich
- Germany

Dynamic Biosensors, Inc.

- 300 Trade Center, Suite 1400 Woburn, MA 01801
- USA
- Order Information order@dynamic-biosensors.com
- Technical Support support@dynamic-biosensors.com
- www.dynamic-biosensors.com
- Instruments and chips are engineered and manufactured in Germany.
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TE40: 10 mM Tris, 40 mM NaCl, 0.05 % Tween20, 50 µM EDTA, 50 µM EGTA If the protein is not stable in PE40 (TE40, HE40), please check buffer compatibility with the switchSENSE® compatibility sheet.

Documents / Resources

	dynamic BIOSENSORS AS-2-Ra-lfs Adapter Strand 2 [pdf] User Manual AS-2-Ra-lfs v5.1, AS-2-Ra-lfs Adapter Strand 2, AS-2-Ra-lfs, Adapter Strand 2, Strand 2

References

- HomePage | Biosensors International Ltd
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