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**AS-2-Ga-lfs v5.1
Adapter Strand**



dynamic BIOSENSORS AS-2-Ga-lfs v5.1 Adapter Strand User Manual

[Home](#) » [dynamic BIOSENSORS](#) » dynamic BIOSENSORS AS-2-Ga-lfs v5.1 Adapter Strand User Manual 

Contents

- [1 dynamic BIOSENSORS AS-2-Ga-lfs v5.1 Adapter Strand](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 FAQ](#)
- [5 Key Features](#)
- [6 Product Description](#)
- [7 Preparation](#)
- [8 Contact](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)
- [10 Related Posts](#)

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dynamic BIOSENSORS AS-2-Ga-lfs v5.1 Adapter Strand



Product Information

Specifications

- Product Name: heliX+
- Model: ADAPTER STRAND 2 with green dye Ga
- Prehybridized with ligand strand
- Manufacturer: Dynamic Biosensors GmbH & Inc.
- Order Number: AS-2-Ga-lfs v5.1
- Key Features: 2 spots with 2 different anchor sequences for DNA-encoded addressing

Product Description

The heliX+ ADAPTER STRAND 2 is a product prehybridized with a ligand strand and features 2 spots with 2 different anchor sequences for DNA-encoded addressing. It comes with green dye Ga for easy visualization.

Contents and Storage Information:

- Material: Adapter strand 2 – Ga – lfs
- Cap Color: White
- For research use only. Limited shelf life, check expiry date on label
- To avoid freeze-thaw cycles, please aliquot the nanolever
- Buffer: TE40

Product Usage Instructions

Preparation | MIX&RUN

1. Mix Adapter strand 1 – Ga (400 nM) and conjugated Ligand strand (500 nM) at 1:1 ratio (v/v).
2. Incubate the solution from step 1 at room temperature at 600 rpm for 30 minutes for complete hybridization.
3. Mix the solution from step 2 with Adapter strand 2 – Ga – lfs (200 nM) at 1:1 ratio (v/v).
4. The solution is now ready for use in biochip functionalization.

Note: The stability of the solution is dependent on the ligand molecule's stability.

FAQ

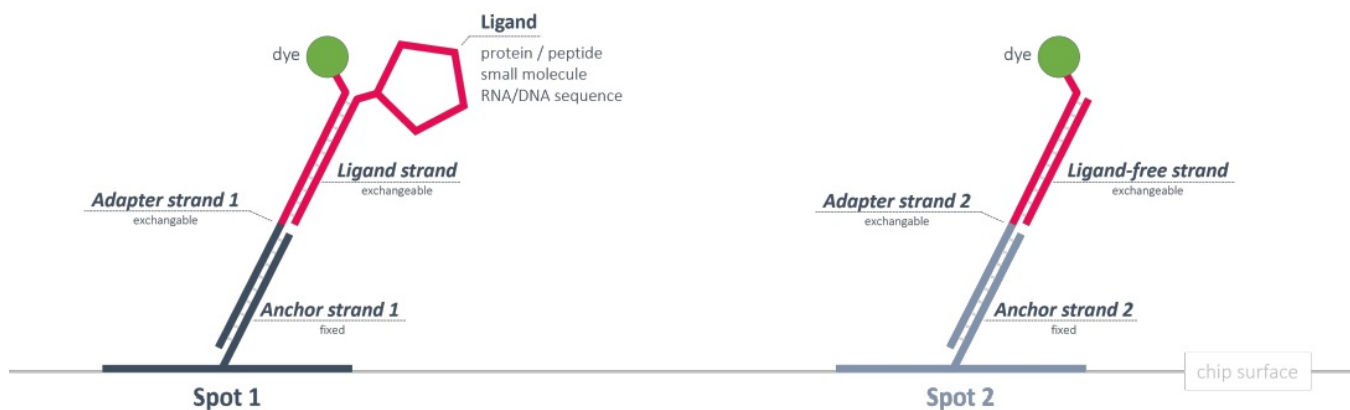
- **Q: Can the heliX+ ADAPTER STRAND 2 be used for multiple experiments?**
 - **A:** The product is designed for single-use experiments due to its limited shelf life and stability concerns.
- **Q: How should I store the heliX+ ADAPTER STRAND 2?**
 - **A:** Store the product according to the storage information provided in the manual, and avoid exposing it to frequent freeze-thaw cycles.

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 hydrophilic green dye (Ga) with a single negative net charge.

heliX® Adapter Chip Overview

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



Product Description

Order Number: AS-2-Ga-lfs

Table 1. Contents and Storage Information

Material	Cap	Concentration	Amount	Buffer	Storage
Adapter strand 2 – Ga – 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 expiry date on the label. To avoid many freeze-thaw cycles please aliquot the nano level

Preparation

Preparation | MIX&RUN

In-solution hybridization of adapter and ligand strands:

1. Mix Adapter strand 1 – Ga (400 nM) and conjugated Ligand strand (500 nM) at 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 solution of step 2 and Adapter strand 2 – Ga – lfs (200 nM) 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 molecule.

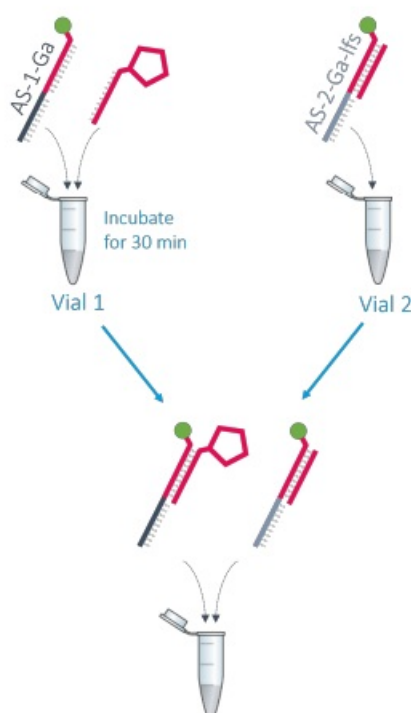


Table 2. Additional material for functionalization of spot 1 and reference spot 2.

Material	Concentration	Buffer	Related Product Name	Order No
Adapter strand 1 – Ga	400 nM	TE40 [1]	Adapter strand 1 with green dye Ga	AS-1-Ga
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 – Ga (400 nM)	Conjugated Ligand strand (500 nM)	Adapter strand 2 – Ga – 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

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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 µM EDTA, 50 µM EGTA
2. If the protein is not stable in PE40 (TE40, HE40), please check buffer compatibility with the switchSENSE® compatibility sheet

Documents / Resources

	<p>dynamic BIOSENSORS AS-2-Ga-Ifs v5.1 Adapter Strand [pdf] User Manual AS-2-Ga-Ifs v5.1, AS-2-Ga-Ifs v5.1 Adapter Strand, Adapter Strand, Strand</p>
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References

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- [📖 User Manual](#)

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