

dynamic  
BIOSENSORS  
**AS-2-Gc-lfs  
Adapter  
Strand 2**



# dynamic BIOSENSORS AS-2-Gc-lfs Adapter Strand 2 User Manual

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



## Specifications

- **Product Name:** heliX+ ADAPTER STRAND 2 with green dye Gc
- **Manufacturer:** Dynamic Biosensors GmbH & Inc.
- **Order Number:** AS-2-Gc-lfs
- **Version:** v5.1

## Preparation and Usage Instructions

1. Mix Adapter strand 1 – Gc (400 nM) and conjugated Ligand strand (500 nM) at a 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 – Gc – lfs (200 nM) at a 1:1 ratio (v/v).
4. The solution is now ready for biochip functionalization.
5. Note: The stability of the solution is dependent on the stability of the ligand molecule.

## FAQ

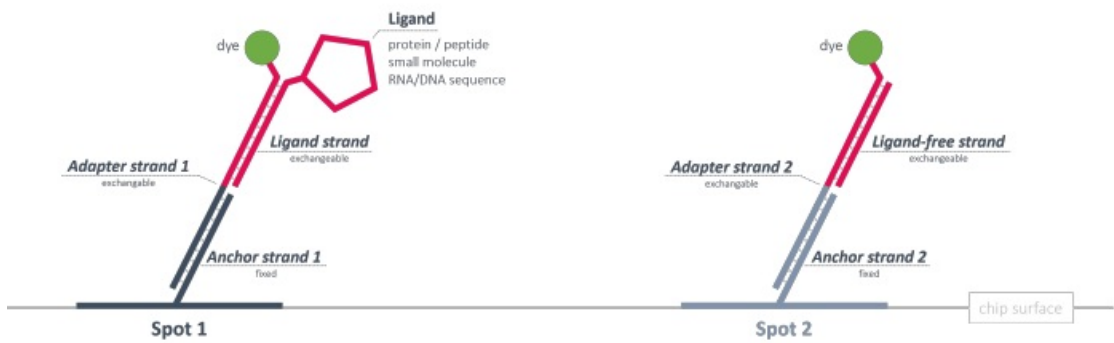
- What is the shelf life of Adapter strand 2 – Gc- lfs?
- The product has a limited shelf life. Please refer to the expiry date on the label for specific information.
- Can Adapter strand 2 – Gc- lfs be used for purposes other than research?
- No, this product is intended for research use only.

## 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 green dye (Gc) 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-Gc-lfs  
Table 1. Contents and Storage Information

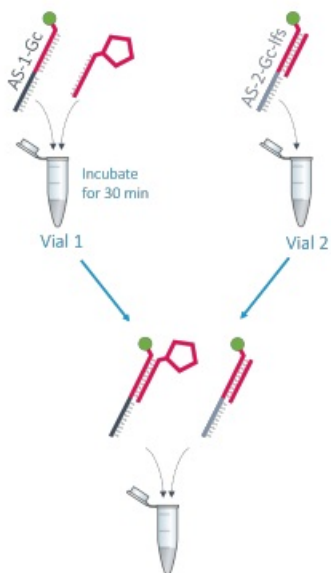
Material	Cap	Concentration	Amount	Buffer	Storage
<b>Adapter strand 2 – Gc- lfs</b>	White	200/250 nM	5 x 200 µL	TE40 <a href="#">[1]</a>	-20°C

or 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 – Gc (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 the solution of step 2 and Adapter strand 2 – Gc – lfs (200 nM) at 1:1 ratio (v/v).



The 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
<b>Adapter strand 1 – Gc</b>	400 nM	TE40 [1]	<b>Adapter strand 1</b> with green dye <b>Gc</b>	AS-1-Gc
<b>Ligand strand</b> carrying the conjugated ligand	500 nM	P2] E40 [	<b>heliX®</b> 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
<b>Adapter strand 1 – Gc</b> (400 nM)	Conjugated <b>Ligand strand</b> (500 nM)	<b>Adapter strand 2 – Gc – Ifs</b> (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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- [www.dynamic-biosensors.com](http://www.dynamic-biosensors.com)
- Instruments and chips are engineered and manufactured in Germany.

©2024 Dynamic Biosensors GmbH | Dynamic Biosensors, Inc. All rights reserved.[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><b><a href="#">dynamic BIOSENSORS AS-2-Gc-lfs Adapter Strand 2</a></b> [pdf] User Manual  AS-2-Gc-lfs v5.1, AS-2-Gc-lfs Adapter Strand 2, AS-2-Gc-lfs, Adapter Strand 2, Strand 2</p>
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## References

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