



dynamic BIOSENSORS AS-1-Gb Adapter Strand 1 User Manual

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dynamic BIOSENSORS AS-1-Gb Adapter Strand 1



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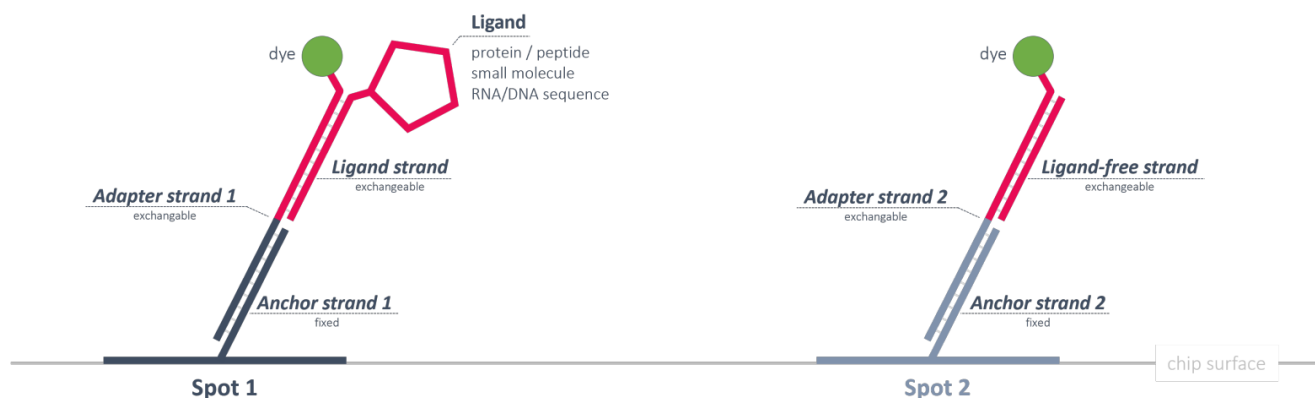
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Key Features

- Adapter strand 1 – Gb for functionalization of heliX® Adapter Chip Spot 1.
- Compatible with heliX® Adapter Chip.
- Includes Adapter strands for 50 regenerations.
- Ideal for MIX&RUN sample preparation.
- Adapter strand 1 carries a moderately hydrophilic green dye (Gb) with a negative net charge.

heliX® Adapter Chip Overview

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



Product Description

Order Number: AS-1-Gb

Table 1. Contents and Storage Information

| Material | Cap | Concentration | Amount | Buffer | Storage |
|-----------------------|-------|---------------|------------|----------|---------|
| Adapter strand 1 – Gb | Black | 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 nanolayer.

Preparation | MIX&RUN

In-solution hybridization of adapter and ligand strands:

1. Mix Adapter strand 1 – Gb (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 1 – Gb – 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.

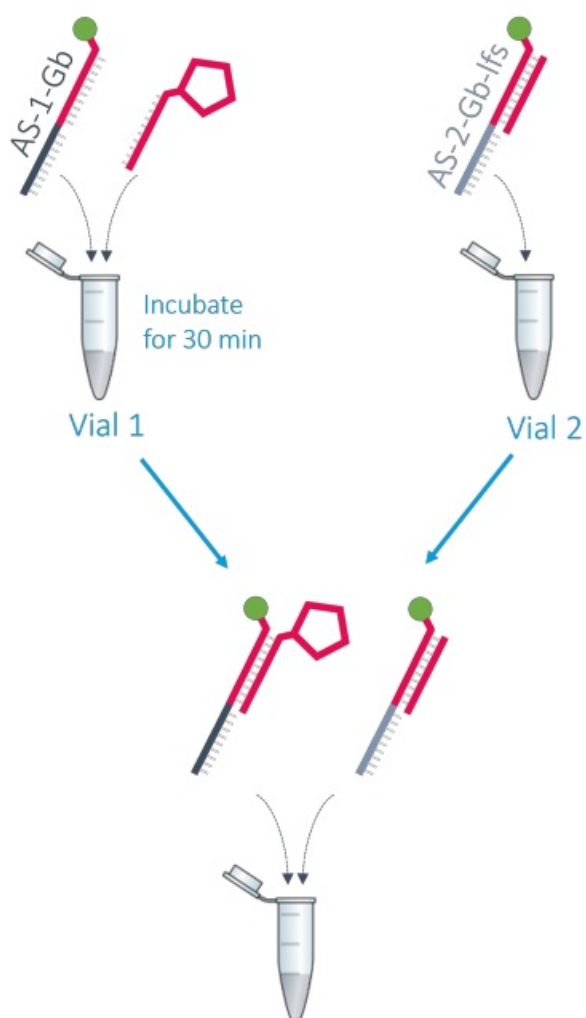


Table 2. Additional material for functionalization of spot 1 and reference spot 2.

| Material | Concentration | Buffer | Related Product Name | Order No |
|--|---------------|----------|---|-------------|
| Ligand strand carrying the conjugated ligand | 500 nM | PE40 [2] | heliX® Amine Coupling Kit 1 | HK-NHS-1 |
| Adapter strand 1 – Gb – lfs | 200/250 nM | TE40 [1] | Adapter strand 2 with green dye Gb prehybridize with ligand-free strand | AS-2-Gb-lfs |

Example

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

| Vial 1 | | Vial 2 |
|--------------------------------|-----------------------------------|--|
| Adapter strand 1 – Gb (400 nM) | Conjugated Ligand strand (500 nM) | Adapter strand 1 – Gb – Ifs (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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[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

| | |
|---|---|
|  | dynamic BIOSENSORS AS-1-Gb Adapter Strand 1 [pdf] User Manual AS-2-Gb-Ifs, AS-1-Gb Adapter Strand 1, AS-1-Gb, Adapter Strand 1, Strand 1 |
|---|---|

References

-  [HomePage | Biosensors International Ltd](#)
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