Dynamic Biosensors Adapter Strand Package

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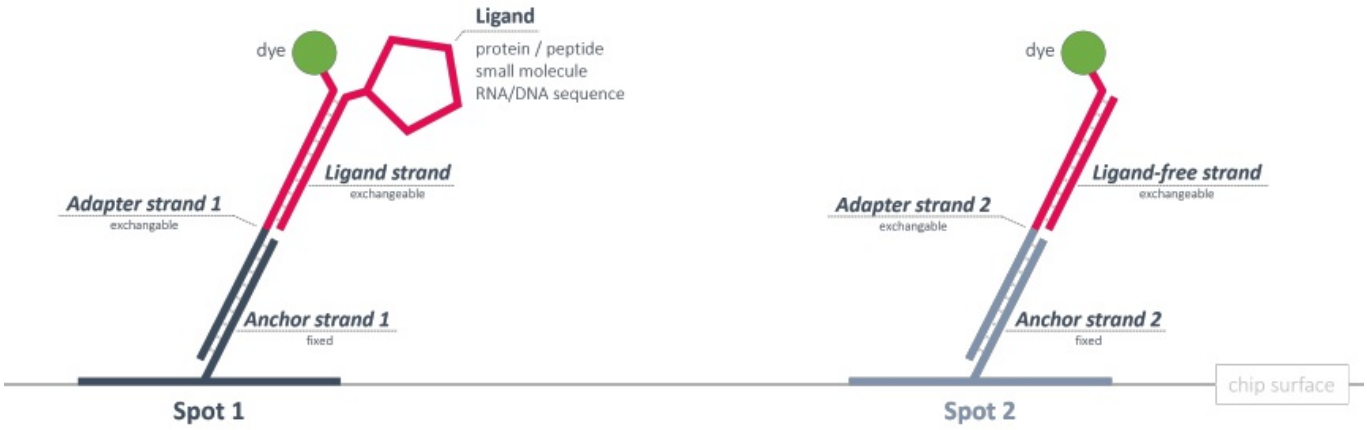
Key Features

- Adapter strand 1 – Ga and Adapter strand 2 – Ga – lfs (ligand free strand) for functionalization of heliX ® Adapter Chip on Spot 1 and Spot 2, respectively.
- Compatible with heliX ® Adapter Chip.
- Includes Adapter strands for 50 regenerations.
- Ideal for MIX&RUN sample preparation.
- Adapter strands 1 and 2 carry a moderately hydrophilic green dye (Ga) with a single negative net charge.

Adapter Chip Overview

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



Product Description

Order Number: **ASP-1-Ga**

Table 1. Contents and Storage Information

Material	Cap	Concentration	Amount	Buffer	Storage
Adapter strand 1 – Ga	Black	400 nM	5 x 100 µL	TE40 [1]	-20°C
Adapter strand 2 – Ga – lfs	White	200/250 nM	5 x 200 µL	TE40 [1]	-20°C

For research use only.

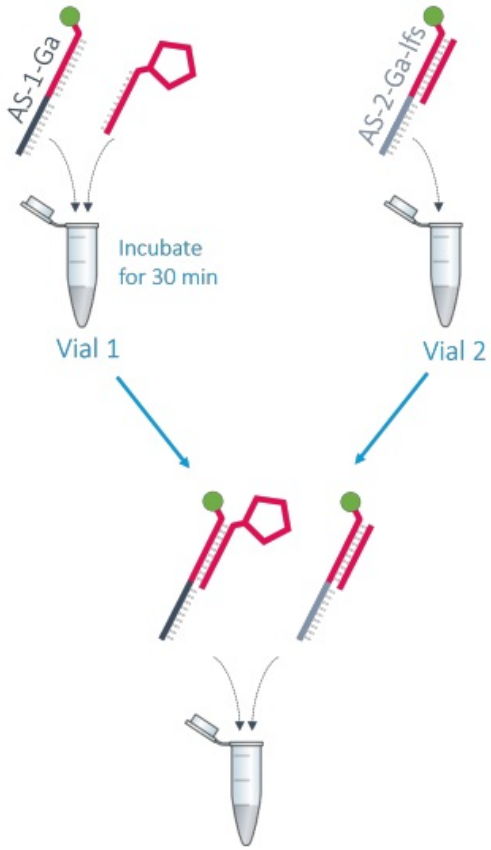
his product has a limited shelf life, please see expiry date on label.

To avoid many freeze thaw cycles please aliquot the nano lever.

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
Ligand strand carrying the conjugated ligand	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 – 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.

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Instruments and chips are engineered and manufactured in Germany.

For Research Use Only. Not for use in clinical diagnostic procedures.

[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 Adapter Strand Package [pdf] User Manual Adapter Strand Package, Strand Package, Package

References

- User Manual

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Adapter Strand Package, dynamic BIOSENSORS, Package, Strand Package

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