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

dynamic BIOSENSORS AS-2-Gb-lfs Adapter Strand

Contents

Key Features

- Adapter strand 1 – Gc 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 hydrophobic green dye (Gc) with a neutral net charge.

Adapter Chip Overview

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

Product Description

Order Number: AS-1-Gc
Table 1. Contents and Storage Information

Material	Cap	Concentration	Amount	Buffer	Storage
Adapter strand 1 – Gc	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

n-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 solution of step 2 and Adapter strand 1 – Gc – 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.

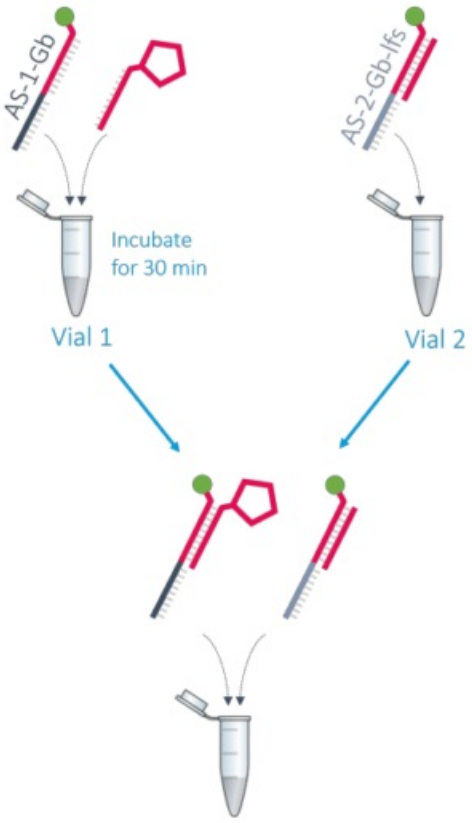

Table 2. Additional material for functionalization of spot 1 and reference spot 2.

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

Example

Required volume for 3 functionalization's: 100 µL with a final concentration of 100 nM.

Vial 1		Vial 2
Adapter strand 1 – Gc (400 NM)	Conjugated Ligand strand (500 NM)	Adapter strand 1 – Gc – lfs (200/250 NM)
25 µ	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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Documents / Resources

	dynamic BIOSENSORS AS-2-Gb-lfs Adapter Strand [pdf] User Manual AS-2-Gb-lfs, AS-2-Gb-lfs Adapter Strand, Adapter Strand, Strand

References

- HomePage | Biosensors International Ltd
- Home - Dynamic Biosensors
- Home - Dynamic Biosensors
- User Manual