

# BioTeZ Berlin-Buch GmbH

Biodiagnostics - Oligonucleotides –  
Biomolecule markers - Biochemistry Services



## Set up of Lateral Flow Tests by using BioTeZ compounds

**BioTeZ Berlin-Buch GmbH** is a company focused on biotechnological research and products. Founded in 1992, it is located with labs and the production plant at the Berlin Bio-Medical Research Campus in Berlin, Germany.

Recognized for high innovation and quality for decades, BioTeZ identifies itself as a partner of

- Assay manufacturers
- Biotechnology research
- Pharmaceutical industry and
- Laboratory analysis

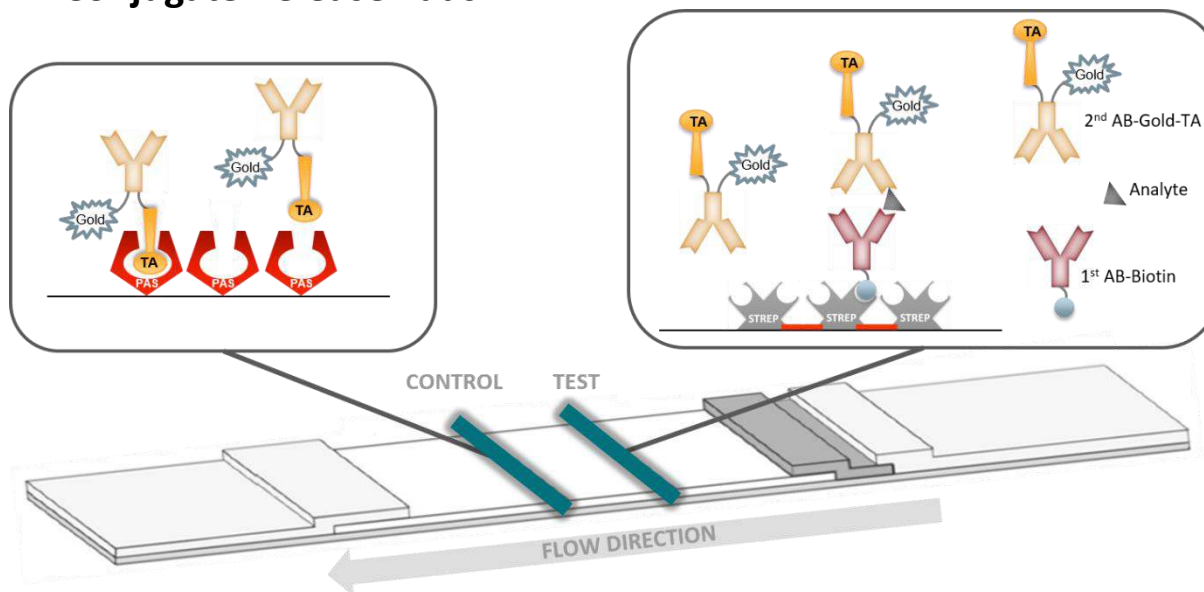
[www.biotez.de](http://www.biotez.de)

**BioTeZ: Experts in Biochemistry!**

# Development of LFA by using BioTeZ compounds

Example: Set up for LFA (Lateral Flow Assay) with BioTeZ tools

- Sandwich Assay
- 1 Analyte
- Test Line
- Control Line
- Gold Detection System
- Conjugate Release Pads



# Development of LFA

## by using BioTeZ compounds

## Standardized LFA Set up

### Test Line

-Coating of BioTeZ Polystreptavidin at the Test Line  
(for immobilization of biotinylated capture antibody)

### Control Line

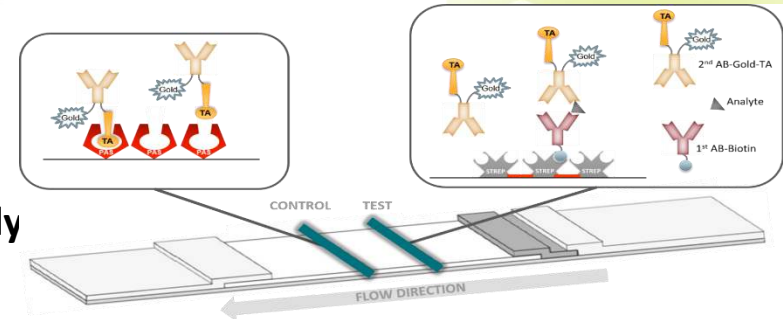
Coating of BioTeZ PAS-Antibody at the Control Line  
(for immobilization of TA-labelled detection antibody)

### Conjugate Release Pad 1

Coating of biotinylated capture antibody at Conjugate Release Pad 1

### Conjugate Release Pad 2

Coating of double labelled detection antibody at Conjugate Release Pad 2  
(1<sup>st</sup> Label = TA-label; 2<sup>nd</sup> Label = Gold nanoparticle)



# Development of LFA by using BioTeZ compounds

## Standardized LFA Set up **Workflow**

1.

- **Preparation / Coating of the nitrocellulose membrane**

- Spotting PolyStreptavidin at Test Line
- Spotting PAS-Antibody at Control Line
- Let the membrane dry over night at RT

2.

- **Labelling of antibodies**

- Biotinylation of capture antibody with BioTeZ Biotin Labelling Kit
- Labelling of detection antibody with TA label (BioTeZ TA-PAS Labelling Kit)
- 2nd step: Labelling of detection antibody with Gold nanoparticles (BioTeZ Gold Conjugation Kit)

3.

- **Preparation of Conjugate Release Pads**

- Spotting of biotinylated capture antibody on Pad 1 (dry over night at RT)
- Spotting of double labelled detection antibody on Pad 2 (dry over night at RT)

Assembling of the LFA



# Development of LFA by using BioTeZ compounds



The philosophy behind the BioTeZ Assay Development Product Portfolio:

BioTeZ wants to provide its customers an attractive tool box for a standardized LFA development and for simple upscaling for mass production.

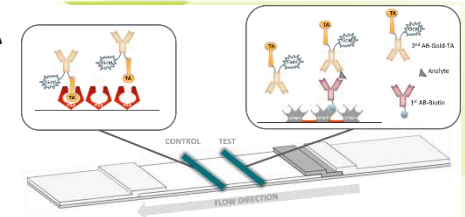
Therefore we offer kits for easy testing and bulk ware for large scale production.

Additional BioTeZ offers many individual immunochemistry services to help our customers to reach their goals.

Innovative elements of our Assay Development Product Portfolio are for example the TA-PAS Labelling System and the Polystreptavidin.

TA-PAS Labelling System is a 2 component protein-ligand fast binding interaction system consisting of small synthetic TA-Label and PAS-Antibody. It can be flexibly combined with various target molecules and detection systems and is not influenced by Biotin.

Polystreptavidin is a large very robust molecule with very high biotin binding capacity and many positive characteristics.



# BioTeZ Product Portfolio

## Assay Development



- **Kits**
- **Bulk Ware**
- **Services**

Product	Cat. No.	Package Size
BioTeZ Peroxidase Labelling Kit	BTHRPK-03 BTHRPK-05	For 3 labels For 5 labels
Preparation of HRP labels using highly activated Poly-HRP		
Biotin Labelling Kit	BTBIOK-05	For 5 labels
Reagents for the biotinylation of 1 – 10 mg antibody / 1-5 mg other biomolecules	BTBIOK-10	For 10 labels
TA-PAS Labelling Kit (for immobilization and enrichment of biomolecules) Alternative to or in combination with Biotin/Streptavidin	BTTAP-001	For 1 label
PAS-Gold	20 500 005	0.5 ml
PAS capture antibody gold labelled (40nm)	20 500 020	2.0 ml
PAS-HRP	20 600 001	100 µg
PAS capture antibody HRP labelled		
PAS-Poly-HRP	20 700 001	100 µg
PAS capture antibody Poly-HRP labelled (40nm)		
Polystreptavidin E (Polystrept E) Very high Biotin binding capacity; optimized for using biotin-streptavidin in combination with TA-PAS system in lateral flow tests	10 121 010 10 121 010 10 121 010	1 mg 5 mg 10 mg
Recombinant Streptavidin, FITC-labelled	20 400 001	100 µg
Recombinant Streptavidin, Poly-HRP-labelled	20 201 001	100 µg
Recombinant Streptavidin	10 110 010 10 110 050 10 110 100	1 mg lyophilized 5 mg lyophilized 10 mg lyophilized
Polystreptavidin R (Polystrept R) Very high Biotin binding capacity	10 120 010 10 120 050 10 120 100	1 mg 5 mg 10 mg
Streptavidin-coated 8-well strip plate, C well, clear Polystyrene	F8PS-CL-SC	5 plates
Polystreptavidin-coated 8-well strip plate C well, clear Polystyrene	F8PS-CL-MC	5 plates
Labelled Streptavidin Poly HRP, HRP, Gold, FITC, EU, Carbon Black		
<b>Streptavidin coating kits</b>	<b>Cat. No.</b>	<b>Package Size</b>
BioTeZ Streptavidin Coating Kit For Streptavidin Coating on beads, chips, membranes etc.	BTCK-SC0125 SC0500	BTCK-1 Kit/ 125 ml solution 1 Kit/ 500 ml solution
BioTeZ Polystreptavidin R Coating Kit For Polystreptavidin R Coating on beads, chips, membranes etc.	BTCK-MC0125 BTCK-MC0500	1 Kit/ 125 ml solution 1 Kit/ 500 ml solution
BioTeZ Polystreptavidin R Coating Kit Glass For Polystreptavidin R Coating on glass	BTCCKG-MC0125 BTCKG-MC0500	1 Kit/ 125 ml solution 1 Kit/ 500 ml solution

BioTeZ Berlin-Buch GmbH

Robert-Rössle-Str. 10

13125 Berlin

info@biotez.de

www.biotez.de