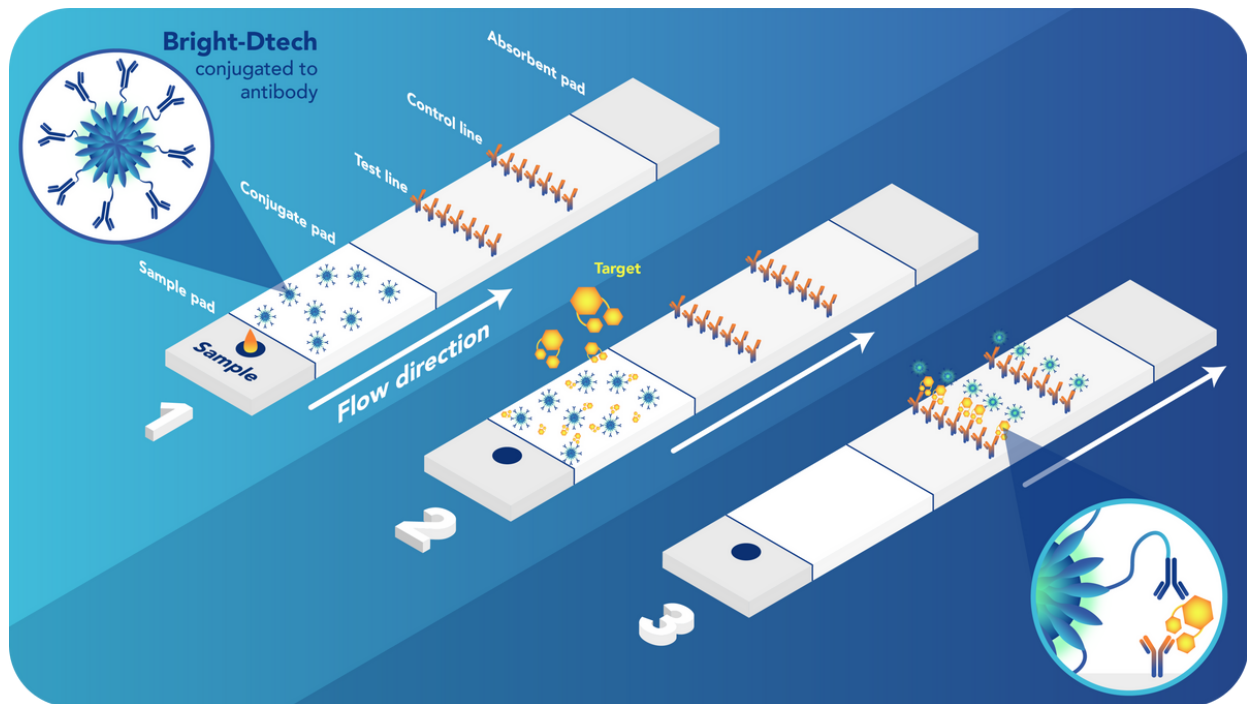


# LATERAL FLOW ASSAY

Using Bright-Dtech™ technology

## How it works:



## Why using Bright-Dtech™ for Lateral Flow Assay?



High sensitivity and low background



Long lifetime and no photobleaching



Easy & controlled **coupling** with Link-Dtech™



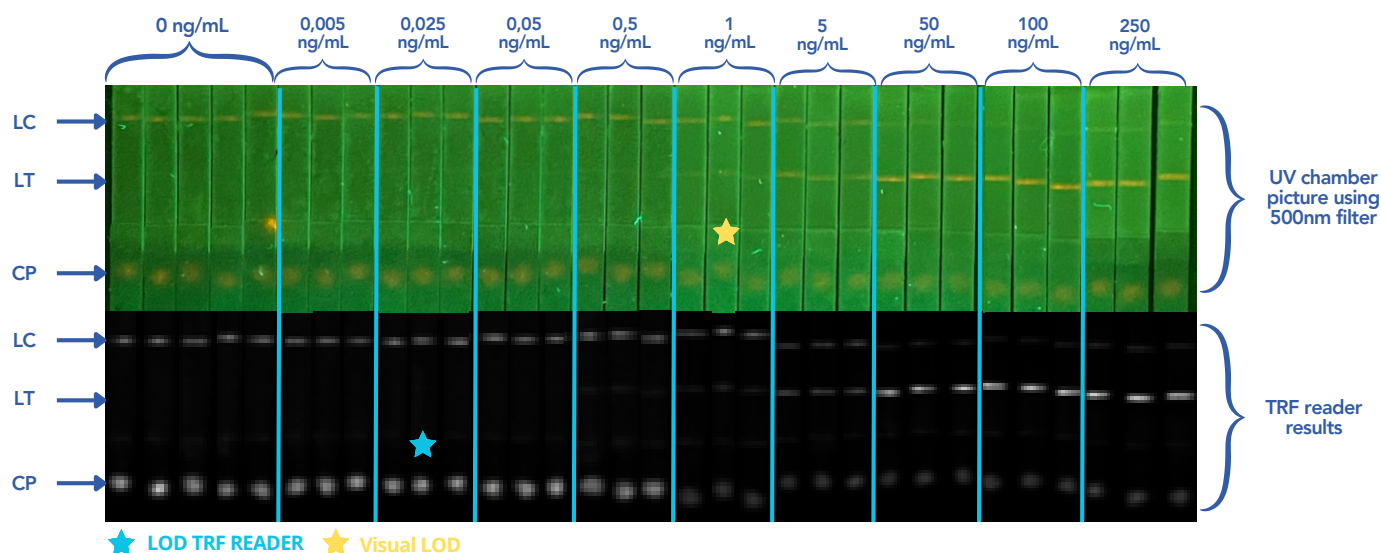
Quick and easy **quantitative** detection

*Required material: Time-Resolved Fluorescence reader*

# Application to PSA\* detection

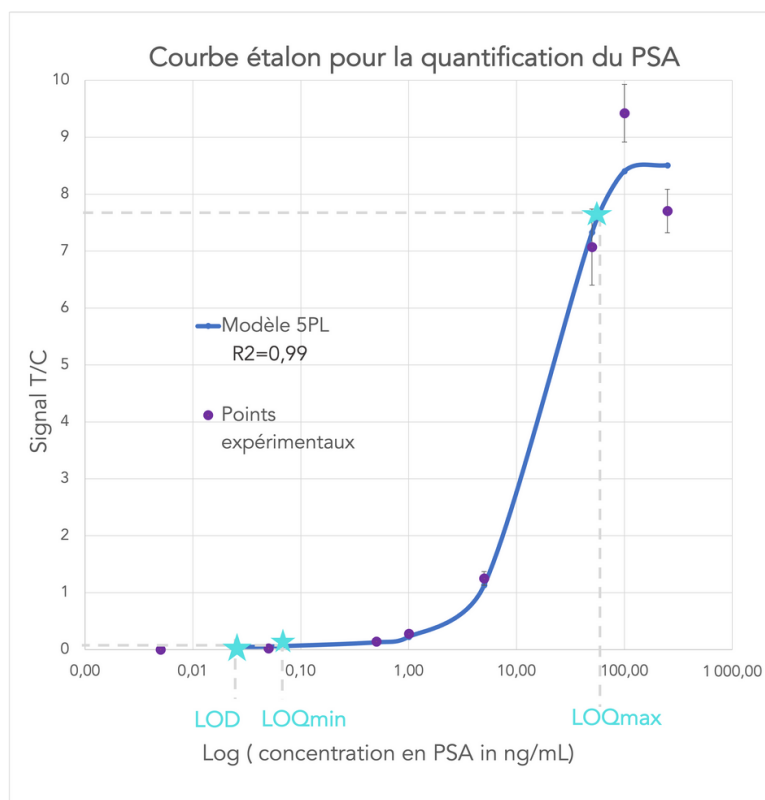
\*PSA: biomarker of prostate cancer and disease

A sensitive, quantitative and efficient way of detecting PSA in serum:



## Test performance analysis:

### Standard Curve:



### Reproducibility & repeatability test:

| PSA concentration in ng/mL | 0,5 ng/mL | 5 ng/mL | 100 ng/mL |
|----------------------------|-----------|---------|-----------|
| Intra-assay SD%            | 7%        | 3%      | 8%        |
| Repetable if CV<10%        |           |         |           |
| Inter-assay SD%            | 3%        | 8%      | 15%       |
| Reproducible if SD%<15%    |           |         |           |

### Effect of the biological matrix (serum):

Spike & recovery test

Validated if 80% < %Recovery < 120%

| PSA concentration in ng/mL | 0,5 ng/mL | 5 ng/mL | 65 ng/mL |
|----------------------------|-----------|---------|----------|
| % Recovery                 | 90%       | 86%     | 92%      |

### Performance summary:

Limit of détection: 25 pg/mL

Dynamic range: 0,071 to 65 ng/mL

Repetable and reproducible

Low impact of biological matrix