

BALLYA

NEW TECHNIQUES FOR PET DIAGNOSTIC

Portable Fluorescence POCT
Test Kit For Pet Diagnostic



Cat.No.	Product	Method	Analysis
PTF00001	cCRP Rapid Test Kit	Fluorescence	Quantitative
PTF00002	fSAA Rapid Test Kit	Fluorescence	Quantitative
PTF00003	cPL Rapid Test Kit	Fluorescence	Quantitative
PTF00004	fPL Rapid Test Kit	Fluorescence	Quantitative
PTF00005	FPV/FHV/FCV Ab Rapid Test Kit (3 in 1)	Fluorescence	Quantitative
PTF00006	FPV Ab Rapid Test Kit	Fluorescence	Quantitative
PTF00007	CPV Ab Rapid Test Kit	Fluorescence	Quantitative
PTF00008	CDV Ab Rapid Test Kit	Fluorescence	Quantitative
PTF00009	FPV Ag Rapid Test Kit	Fluorescence	Quantitative
PTF00010	FCoV Rapid Test Kit	Fluorescence	Quantitative
PTF00011	CPV Ag Rapid Test Kit	Fluorescence	Quantitative
PTF00012	CPV/CCV Ag Rapid Test Kit (2 in 1)	Fluorescence	Quantitative
PTF00013	CDV Ag Rapid Test Kit	Fluorescence	Quantitative
PTF00014	CHW Rapid Test Kit	Fluorescence	Quantitative
PTF00015	Cys C Rapid Test Kit	Fluorescence	Quantitative
PTF00016	Canine Progesterone Rapid Test Kit	Fluorescence	Quantitative
PTF00017	Canine Relaxin Rapid Test Kit	Fluorescence	Quantitative
PTF00018	Canine NT-proBNP Rapid Test Kit	Fluorescence	Quantitative
PTF00019	Feline NT-proBNP Rapid Test Kit	Fluorescence	Quantitative
PTF00020	Canine Cortisol Rapid Test Kit	Fluorescence	Quantitative
PTF00021	Canine TOX Rapid Test Kit	Fluorescence	Quantitative
PTF00022	Feline FHV-1 Rapid Test Kit	Fluorescence	Quantitative
PTF00023	Feline T4 Rapid Test Kit	Fluorescence	Quantitative
PTF00024	Feline TSH Rapid Test Kit	Fluorescence	Quantitative
PTF00025	Feline IP Rapid Test Kit	Fluorescence	Quantitative

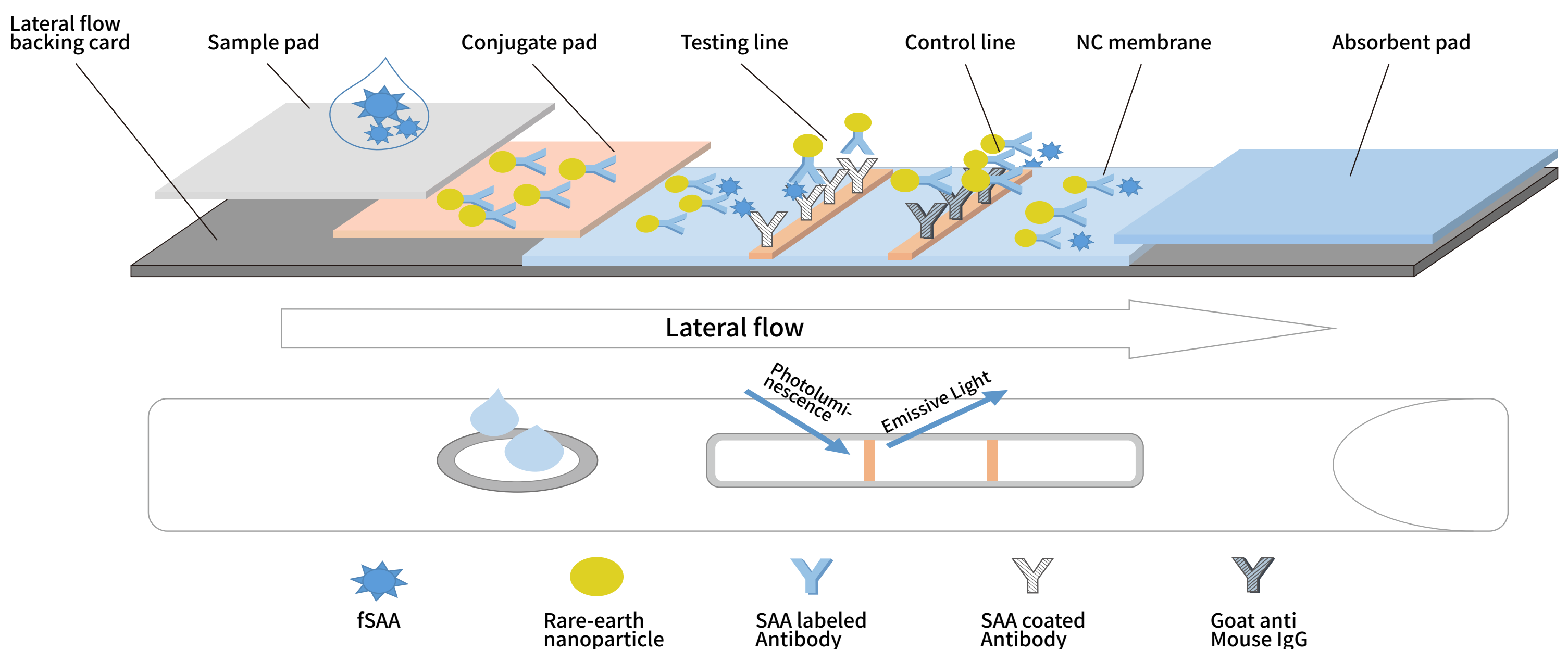
Techniques Introduction

BALLYA pet's POCT diagnostic test kit use upconverting nanoparticles that made of rare earth nanoparticles, it's autofluorescence materials. Test kit has quite stability and high performance.

Features of rare-earth nanoparticles:

1. Low toxicity
2. High chemical stability
3. Excellent light stability
4. Narrow emission band
5. Long luminous life
6. Strong light penetration
7. Almost no damage to biological tissues

Rare-earth nanoparticles in lateral flow assay (POCT Pet Diagnostic)



Benefits in lateral flow assay:

● High stability

In accelerated test at 70°C, storage up to 30 days, its sensitivity and accuracy keep in same performance.

● High sensitivity

Comparison with other fluorescence test kit or colloidal gold test kit, it has much higher sensitivity. No fluorescence background effect, whole blood sample only require 5ul, it can be diluted maximum 750 times, still can detect the target.

- **Reliable result**

Because rare-earth particles will not generate background factors, not effect detection result. High dilution times can reduce disturbing factors from specimen, keep real results.

- **High accuracy**

Its high stability assure its high accuracy result. No matter to storage 12 months or 24 months, test kit will keep in same performance, false positive or false negative will happen.

- **Signal keep in same after long time storage**

Signal attenuation will not happen, no matter to storage 12 months or 24 months. Colloidal gold nanoparticle and other fluorescent microspheres easy to generate signal attenuation.

- **Easy to storage**

No need to storage at cooling condition, 2 - 40°C will not effect its performance.
Storage at: 2 - 40°C

- **Easy to ship**

No require cooling shipment

- **Long shelf life**

24 months

- **Automatic read result**

Reader is automated detecting.

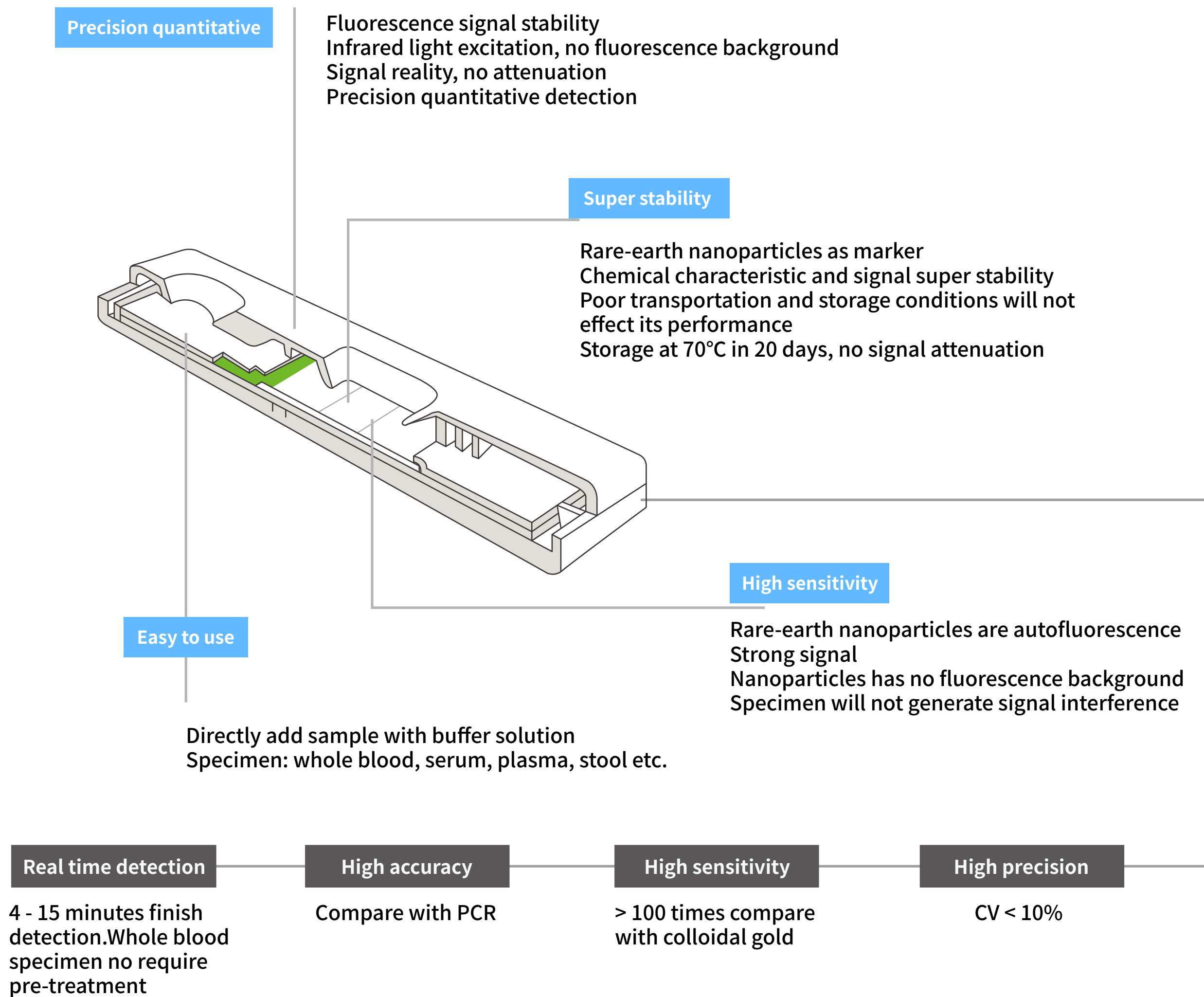
- **Short detection time**

4 - 15 minutes to finish detection

- **CV < 10%**

- **High coincidence rate compare with PCR Test**

- **Cost effective**



Product stability testing:

Mass testing at high temperature and low temperature, even accelerated test 70°C to room temperature storage, no need special avoid lighting, the products will not has signal attenuation in 24 months. All result tolerances are below 10%.

Origin LOD: 20mg/L	70°C Accelerated test	Room temperature storage
5 days	21.8mg/L	19.5mg/L
10 days	19.2mg/L	20.2mg/L
15 days	18.9mg/L	19.3mg/L
20 days	22.4mg/L	21.1mg/L
25 days	21.6.mg/L	20.7mg/L
30 days	18.1mg/L	21.5mg/L

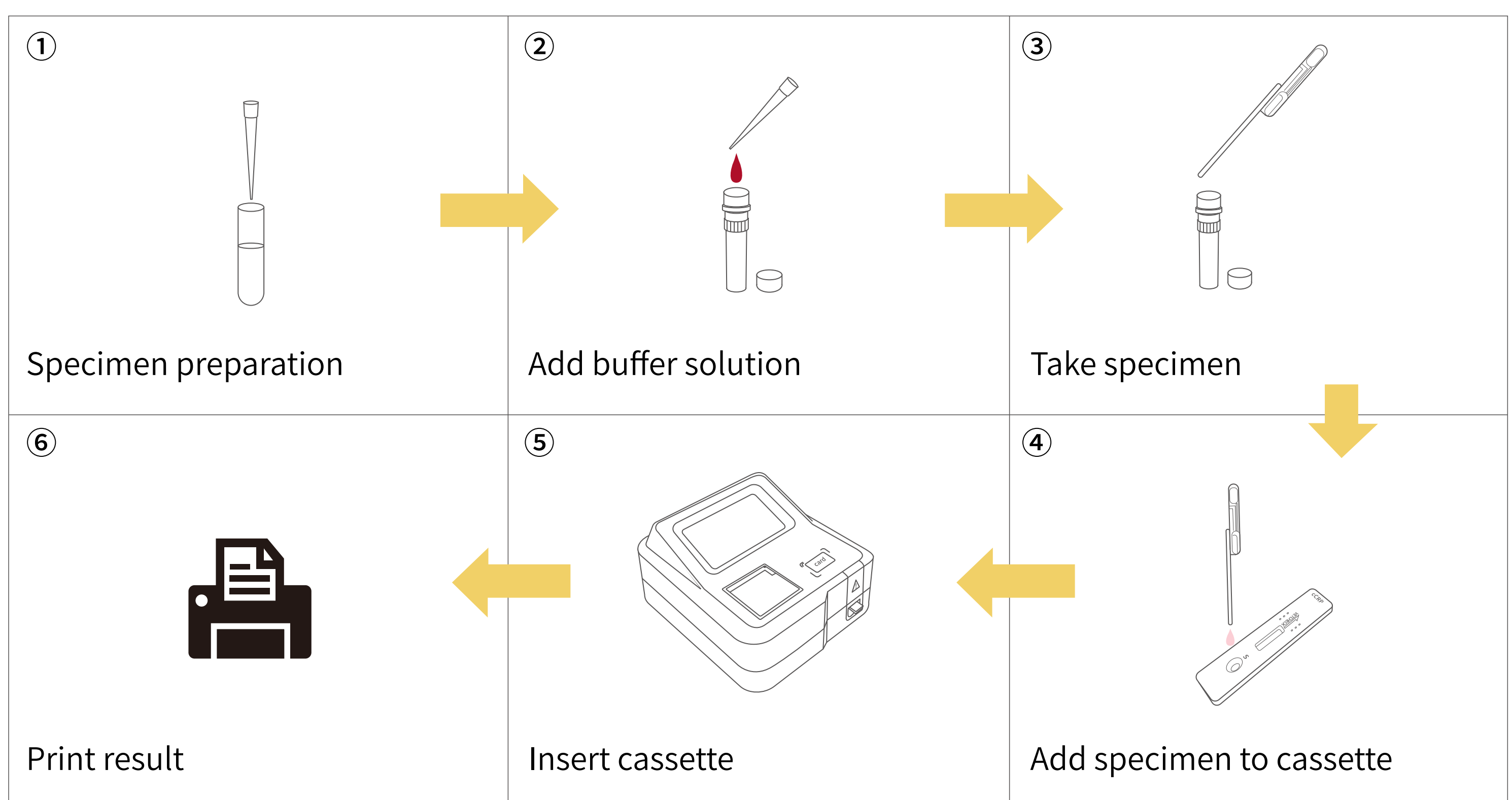
These datas are only partial testing data.

POCT Reader



- 7 inch LED touch screen, easy to use
- Auto scan bar code to select the detecting product
- Auto detection & manual detection
- Maximum storage 100,000 results
- Maximum 10,000 products
- Printer integrated, print results at any time
- USB, RS232, wifi etc.

Operation procedure



BALLYA



**PET
Diagnostic**

Look for distributor

BALLYA

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