

STANDARD® F2400



The **Ultimate** Automated
FIA **Analyzer**

STANDARD®

 SD BIOSENSOR

F2400 Analyzer Advantages

High Throughput

- 70 tests per hour
- 24 sample positions allows continuous loading
- Automatic cartridge ejection system



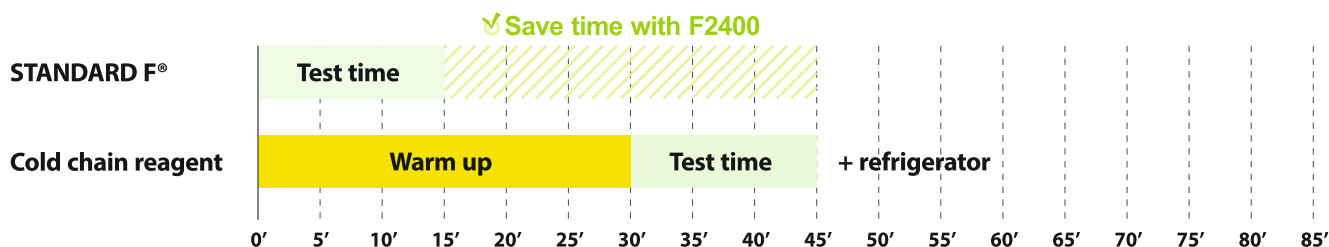
Random access

2D barcode based data input enables the fully automatized workflow with random access. Once a test device is inserted, the test is automatically performed according to the protocols of each parameter through 2D barcode on the test device.

Input order	1	2	3	4	5	6
Test parameter	Influenza A/B	HbA1c	TnI	PCT	Legionella	CRP
Remaining time	11:02	00:32	8:58	4:08	13:36	2:41
Patient ID	Patient1	Patient2	Patient3	Patient4	Patient5	Patient6
Output order	5	1	4	3	6	2

Easy Storage

- **Room temperature storage:** No need to preheat the test device. The moment you need it, test it right away!



- **Individually packed:** To avoid open vial stability issues and allow kits to be used till expiry.

Wide Sample Types With Minimum Sample Required

- **Sample Size:** 3 to 100µl(depending on test)
- **Sample Type:** Capillary Whole Blood, Venous Whole Blood, Serum, Plasma, Urine, Nasopharyngeal Swab, Throat Swab(depending on test).

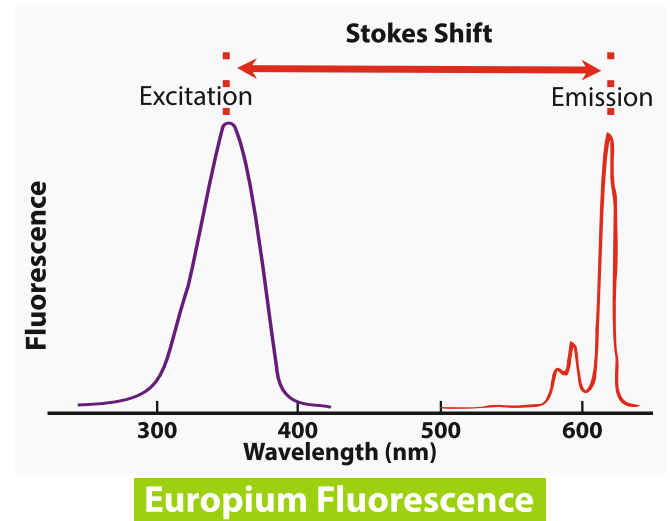
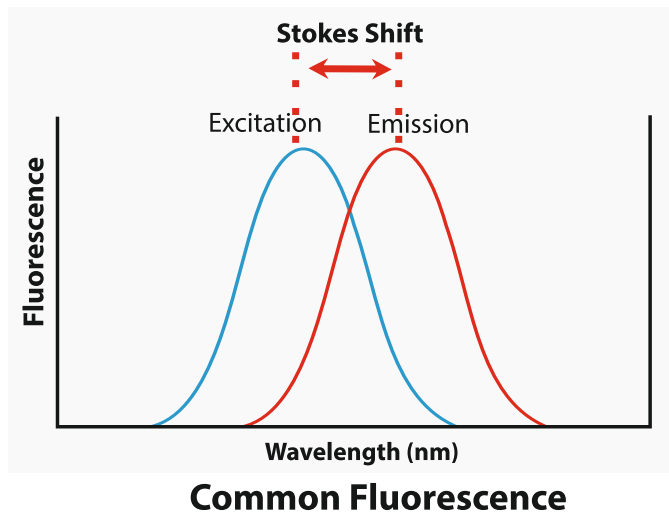
LIS/HIS Connectivity Via HL7

Direct and immediate test result analysis through the own interface.



Europium Based Fluorescent - Wide Stokes Shift

The extremely wide Stokes shift of europium nanoparticles provides excitation at 333 nm and emission at 613 nm to **prevent non-specific fluorescent interference**.



Increased Sensitivity

Fluorescent Immunoassay analysers are as sensitive as Elis as and eliminate difference in observer interpretation

Dengue NS1 Positive	RDT		STANDARD F® Dengue NS1 Ag	
	Result	Color Scale	Result	COI
High Conc. Virus	Pos	88%	Pos	175
2 ¹ fold dilution	Pos	88%	Pos	176.64
2 ² fold dilution	Pos	50%	Pos	180.5
2 ³ fold dilution	Pos	30%	Pos	135.9
2 ⁴ fold dilution	Pos	16%	Pos	76.48
2 ⁵ fold dilution	Pos	10%	Pos	45.7
2 ⁶ fold dilution	Pos	5%	Pos	29
2 ⁷ fold dilution	Pos*	4%	Pos	17.15
2 ⁸ fold dilution	Pos*	3%	Pos	9.42
2 ⁹ fold dilution	Pos*	1%	Pos	5.15
2 ¹⁰ fold dilution	Neg	-	Pos	3.99
2 ¹¹ fold dilution	Neg	-	Pos	1.83
2 ¹² fold dilution	Neg	-	Neg	0.76
2 ¹³ fold dilution	Neg	-	Neg	0.11

* Interpretation will vary with observer

Sample	Commercial RDT	STANDARD F®	ELISA Result
	IgG	IgG / COI	
V206353	-	+ / 3.54	IgG+
V206365	-	+ / 2.18	IgG+
V206364	-	+ / 6.90	IgG+
V206361	-	-	-
V206362	-	+ / 5.40	IgG+
V206363	-	-	-
V206356	-	-	-
V206359	-	-	-
V206358	-	+ / 3.21	IgG+
V206357	-	-	-
V206356	-	-	-
V206351	-	+ / 7.91	IgG+
V206349	-	+ / 1.03	IgG+
V206348	-	-	-
V206347	-	-	-

Study in Thailand shows excellent correlations between STANDARD F® Dengue IgG and IgG ELISA

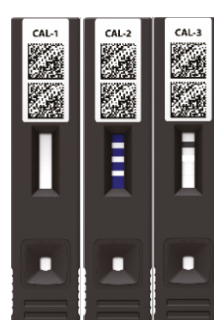
Elimination Of Calibration Related Errors

2 D barcode maximize data entry accuracy and minimize human error.



Contains information on

1. Item
2. Lot Number
3. Manf. Date
4. Exp. Date
5. Qualitative sensitivity algorithm
6. Quantitative calibration algorithm
7. Temperature coding information
8. Unique labelling information

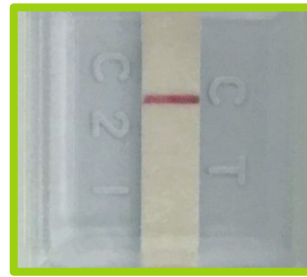
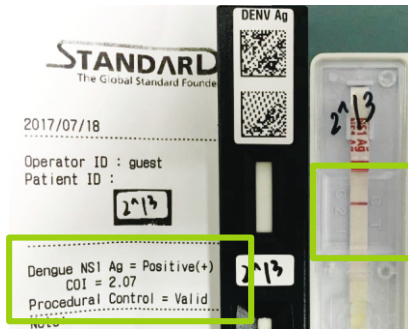


Calibration set

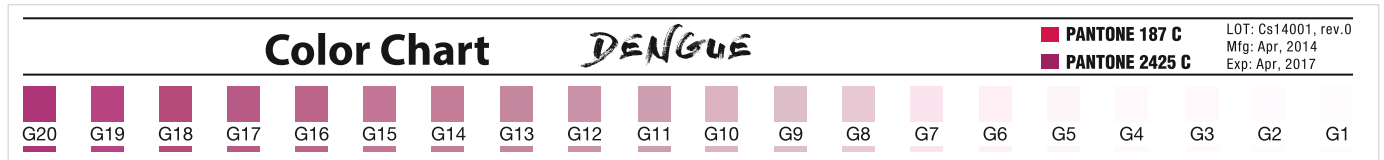
- Reusable calibration set checks optical part of analyzer
- Consists of 3 calibration devices
- Cal-1 for white calibration
- Cal-2 for UV sensor
- Cal-3 for RGB sensor

Qualitative Parameter

Eliminate ambiguous test results as the analyzer interprets and objective COI(Cut Off index) provide semi-quantitative result.



- **STANDARD F®** : Positive (COI=2.07)
- **RDT**: Negative



Quantitative Parameter

Accurate results allow a high correlation with reference method results within CV 10%

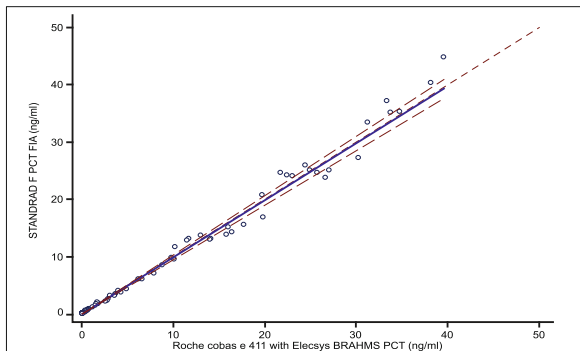


Fig.1. STANDARD F® PCT FIA(y) compared to the Chemiluminescence immunoassay(x) with serum samples.

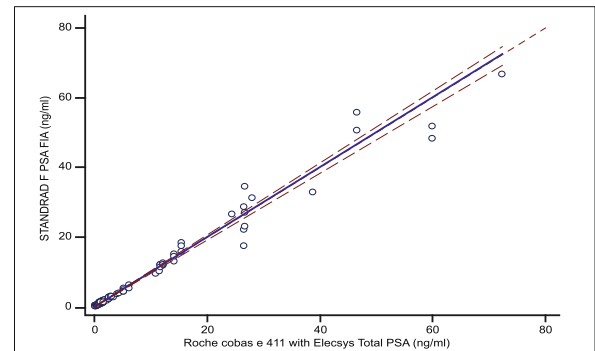


Fig.2. STANDARD F® PSA FIA(y) compared to the Chemiluminescence immunoassay(x) with serum samples.

STANDARD F® Parameters

Quantitative Markers

Hormone

- Vitamin D
- TSH, TSH II
- T3, T4, fT4
- β-hCG
- LH, FSH
- PRL
- AMH

Diabetes

- HbA1c
- U-Albumin

TB

- TB-Feron IGRA*

Cardiovascular

- TnI
- TnI Pro
- CK-MB
- hs-CRP
- D-dimer
- NT-proBNP
- TnI/CK-MB Combo

Infection

- CRP
- PCT

Semi Quantitative Markers

Respiratory

- Covid-19 Ag
- S. pneumoniae Ag
- Strep A Ag
- RSV Ag
- Legionella Ag
- Influenza A/B Ag*

Gastrointestinal

- H.pylori Ag
- Rota virus Ag*
- iFOB

Vector-borne

- Dengue Ns1 Ag
- Dengue IgM/IgG
- Chikungunya IgM/IgG
- Tsutsugamushi IgM/IgG

Blood-borne

- HIV Ag/Ab
- HBsAg
- HCV Ab

*Coming Soon