YD-F100

Fluorescence Immunoassay Analyzer

Portable testing with Wi-Fi connectivity, reagent QR scanning and an integrated battery.

3 sec
fastest reading/test

8-inch
touchscreen

2.8 kg
instrument weight

Technical specifications

Throughput	Fastest: 3 sec/test; routine: 3 min/test
Sample types	Whole blood, serum, plasma and urine
Display / printing	8-inch LCD touchscreen; built-in thermal and external printers
Data / connectivity	Up to 100,000 reports; Wi-Fi, wireless data transmission and LIS connection
Reagent identification	QR code scanning for reagent information
Quality control	Multiple quality controls and temperature compensation
Battery	8,400 mAh; up to 8 hours of continuous testing
Power supply	100–240 VAC, 50/60 Hz input; DC 12 V, 2 A output
Operating conditions	15–30 °C; relative humidity 20–80%
Dimensions / weight	277 × 210 × 156 mm (L × W × H) / 2.8 kg

YD-F100 / REAGENT PORTFOLIO

POCT reagent specifications

Product Name	Sample Volume (μL)	Dilution Volume (μL)	Sample Type	Reaction Time (min)	Detection Range	CUT-OFF Value	Certification
CRP	10μLWB/FTB 5μL S/P	75μL	WB/FTB/S/P	3	0.5-200mg/L	hsCRP<1mg/L CRP<10mg/L	CE
PCT	100μL	75μL	WB/S/P	12	0.25-100 ng/mL	<0.5ng/mL	CE
SAA	10μLWB/FTB 5μL S/P	75μL	WB/FTB/S/P	3	3-200 mg/L	<10 mg/L	CE
CRP/SAA	10μLWB/FTB 5μL S/P	75μL	WB/FTB/S/P	3	CRP: 0.5-200mg/L SAA: 3-200mg/L	CRP<10mg/L SAA<10mg/L	CE
HBP	75μL	75μL	P	12	6-300ng/mL	< 12.0ng/mL	CE
CCP	20μL WB 10μL S/P	75μL	WB/S/P	10	5-640RU/mL	Refer to User Manual	CE
RF/ASO/CRP	10μL	75μL	S	10	RF: 10-120 IU/mL ASO: 30-600 IU/mL CRP: 1-100 mg/L	RF<20IU/mL ASO<200IU/mL CRP<10 mg/L	CE
RF	10μL	75μL	WB/S/P	10	RF: 10-120 IU/mL	RF<20 IU/mL	CE
ASO	10μL	75μL	WB/S/P	10	ASO: 30-600 IU/mL	ASO<200 IU/mL	CE
IL-6	75μL	75μL	WB/S/P	12	3-4000 pg/mL	<7 pg/mL	CE
PCT/IL-6	75μL	75μL	WB/S/P	12	PCT: 0.06-100 ng/mL IL-6: 3.5-4000 pg/mL	PCT<0.1ng/mL IL-6<7pg/mL	
cTnI	75μL	75μL	WB/S/P	12	0.05-50ng/mL	<0.1ng/mL	CE
CK-MB	75μL	75μL	WB/S/P	12	0.3-100 ng/mL	<6ng/mL	CE
Myo	75μL	75μL	WB/S/P	12	5-1000ng/mL	<100ng/mL	CE
D-D	100μL WB 75μL P	75μL	WB/P	5	0.05-10mg/L	<0.5mg/L	CE
NT-proBNP	150μL WB 100μL S/P	75μL	WB/S/P	12	100-45000pg/mL	<75years old, <300pg/mL; ≥75years old, <450pg/mL	CE
H-FABP	75μL	75μL	S/P	12	2-150ng/mL	<7 ng/mL	CE
cTnI/CK-MB/Myo	75μL	75μL	WB/S/P	15	cTnI: 0.05-50ng/mL CK-MB: 1-100ng/mL Myo: 5-600 ng/mL	cTnI: <0.1 ng/mL CK-MB: <6ng/mL Myo: <100ng/mL	CE
cTnI/NT-proBNP/D-D	100μL	100μL	WB/P	15	cTnI: 0.1-50 ng/mL NT-proBNP: 100-45000pg/mL D-D: 0.05-10mg/L	Refer to User Manual	CE
ST2	75μL	75μL	WB/S/P	12	3-200ng/mL	≤35ng/mL	CE
NT-proBNP/ST2	75μL	75μL	WB/S/P	12	NT-proBNP: 100-45000pg/mL ST2: 3-200ng/mL	Refer to User Manual	CE
Lp-PLA2	75μL	75μL	WB/S/P	5	10-800 ng/mL	<175ng/mL	CE
cTnT	75μL	75μL	WB/S/P	12	0.03-10ng/mL	<0.1ng/mL	CE
BNP	75μL	75μL	WB/P	12	5-5000pg/mL	<100pg/mL	CE
hs-cTnI	75μL	75μL	WB/S/P	10	12.2-50000 ng/L	male: < 45 ng/L female: < 35 ng/L	CE
CPP	75μL	75μL	WB/S/P	12	31.25- 2000pg/mL	< 70 pg/mL	
GDF-15	75μL	75μL	WB/S/P	12	400-20000pg/mL	Refer to User Manual	
AFP	75μL	75μL	S/P	12	5-1000ng/mL	<20ng/mL	CE
t-PSA	100μL	100μL	WB/S/P	12	2-100ng/mL	<4ng/mL	CE
CEA	75μL	75μL	S/P	12	2.5-600 ng/mL	<5ng/mL	CE
PG I	75μL	75μL	S	12	10-300 ng/mL	70-200ng/mL	CE
PG II	75μL	75μL	S	12	5-100 ng/mL	<15 ng/mL	CE
FOB	6 fresh fecal positions	2-3drops (70μL-100μL)	Fecal	10	50-1200ng/mL	<100 ng/mL(20μg/g feces)	CE
S100β	100μL	100μL	WB/S/P	15	0.05-10ng/mL	<0.2ng/mL	CE
VEGF	100μL	100μL	WB/S/P	15	50-3200pg/mL	< 160 pg/mL	CE
G-17	75μL	75μL	WB/S/P	12	0.5-320 pmol/L	1-7pmol/L	CE
PGI+PGII	75μL	75μL	S	12	PGI: 10-300 ng/mL PGII: 5-100 ng/mL	PGI: 70-200 ng/mL PGII: <15 ng/mL	
CA125	75μL	75μL	WB/S/P	12	10-2000U/mL	<35 U/mL	CE

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YD-F100 / REAGENT PORTFOLIO

POCT reagent specifications

Product Name	Sample Volume (μL)	Dilution Volume (μL)	Sample Type	Reaction Time (min)	Detection Range	CUT-OFF Value	Certification
CA15-3	10μL	75μL	WB/S/P	12	5-300U/mL	＜26.2 U/mL	CE
CA19-9	75μL	75μL	WB/S/P	12	8-1000U/mL	＜27 U/mL	CE
Cys C	10μL	75μL	S/P	10	0.2-10mg/L	＜1.2mg/L	CE
β2-MG	5μL	75μL	S/P	10	0.1-18mg/L	1-3mg/L	CE
NGAL	10μL	75μL	S	10	10-3000ng/mL	＜150ng/mL	CE
MAU	5μL	75μL	U	5	2-300mg/L	＜20mg/L	CE
HbA1C	5μL	75μL	WB	6	4.0-15.0%	4-6%	CE
ADPN	10μL	75μL	WB/S/P	10	2.0-40μg/mL	2.6-12.5μg/mL	
MP IgM	10μL S/P 20μL WB	75μL	WB/S/P	10	5-160RU/mL	Refer to User Manual	CE
MP IgG	10μL S/P 20μL WB	75μL	WB/S/P	10	5-160RU/mL	Refer to User Manual	CE
Cpn IgM	10μL S/P 20μL WB	75μL	WB/S/P	10	5-160RU/mL	Refer to User Manual	
SARS-CoV-2	75μL	100μL	WB/S/P	15	QUALITATIVE	Refer to User Manual	CE
Cpn IgG	10μL S/P 20μL WB	75μL	WB/S/P	10	5-160RU/mL	Refer to User Manual	
MP	-	3-4 drops (100μL)	Oropharyngeal Swab	15	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
Cpn	-	3-4 drops (100μL)	Oropharyngeal Swab	15	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	
Adv	-	3-4 drops (100μL)	Nasopharyngeal Swab	10	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
RSV	-	3-4 drops (100μL)	Nasopharyngeal Swab	10	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
Strep A	-	3-4 drops (100μL)	Oropharyngeal Swab	10	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
Influenza A+B	-	3-4 drops (100μL)	Nasopharyngeal Swab	10	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
H.Pylori Ab	75μL	100μL	WB/S/P	15	Urease: 10-320RU/mL VacA: 5-80RU/mL CagA: 7.5-120RU/mL	Urease: ＜20.0RU/mL VacA: ＜10.0RU/mL CagA: ＜15.0RU/mL	CE
Dengue NS1	75μL	75μL	WB/S/P	12	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
Dengue IgM/IgG	75μL	75μL	WB/S/P	12	QUALITATIVE	Refer to User Manual	CE
HBsAb	100μL	100μL	WB/S/P	15	10 mIU/mL-1000 mIU/mL	<10 mIU/mL	
Total β-HCG	100μL	100μL	S	15	25-10000mIU/mL	＜25mIU/mL	CE
T3	75μL	75μL	S	thoroughly mix for 5 minutes 15minutes	0.61-9.22 nmol/L	1.23-3.07nmol/L	CE
T4	75μL	75μL	S	thoroughly mix for 5 minutes 15minutes	12.87-310 nmol/L	66-181 nmol/L	CE
TSH	75μL	75μL	S	15	0.1-100 mIU/L	0.3-4.2mIU/L	CE
FT4	75μL	75μL	S	thoroughly mix for 1 minute 15minutes	6.0-120 pmol/L	12-22 pmol/L	CE
FT3	75μL	75μL	S	thoroughly mix for 1 minute 15minutes	2.0-50 pmol/L	3.1-7.0 pmol/L	CE
FSH	75μL	75μL	WB/S/P	15	1~150mIU/mL	Refer to User Manual	CE
LH	75μL	75μL	WB/S/P	15	1-150mIU/mL	Refer to User Manual	CE
HCG	60μL	75μL	S	15	10-200000mIU/mL	＜10mIU/mL	CE
AMH	75μL	75μL	WB/S/P	12	0.1-16ng/mL	Refer to User Manual	CE
Prog	75μL	75μL	WB/S/P	15	1-60ng/mL	Refer to User Manual	CE
Testo	75μL	75μL	WB/S/P	15	0.1-15ng/mL	Adult male：1.5-10ng/mL Adult female：0.1-0.6ng/mL	CE
IGF-1	10μL	75μL	WB/S/P	15	20.0 ng/mL-1600.0ng/mL	Refer to User Manual	
IGFBP-3	10μL	75μL	WB/S/P	15	0.30 μg/mL-16.00 μg/mL	Refer to User Manual	
E2	75μL	75μL	WB/S/P	15	20 pg/mL~3000 pg/mL	Refer to User Manual	CE

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YD-F100 / REAGENT PORTFOLIO

POCT reagent specifications

Product Name	Sample Volume (µL)	Dilution Volume (µL)	Sample Type	Reaction Time (min)	Detection Range	CUT-OFF Value	Certification
PRL	75µL	75µL	WB/S/P	15	1-200ng/mL	Refer to User Manual	CE
25-OH-D	10µL	100µL	WB/S/P	15	5-70ng/mL	≥30ng/mL	CE
Ferr	10µL	100µL	WB/S/P	15	5-500ng/mL	Male: 30-400ng/mL Female: 15-150ng/mL	CE
FA	10µL	100µL	WB/S/P	15	1.5-20ng/mL	4.9-19.1ng/mL	CE
VB12	100µL	100µL	WB/S/P	15	150-1500pg/mL	240-800pg/mL	CE
HB+TF	6 fresh fecal positions	2-3 drops	Fecal	15	HB: 50-1200ng/mL TF: 20-1200ng/mL	HB: <100ng/mL TF: <40ng/mL (8ug/g feces)	CE
tIgE	10µL	75µL	WB/S/P	10	2-1000 IU/mL	Refer to User Manual	

Reagent handling

Use matched reagent configurations and follow each assay's instructions for sample type, preparation and reaction time. Reagent portfolio entries do not establish compatibility with every analyzer.

Store and reseal correctly

Follow the assay-specific storage and open-pack shelf life. Reseal the foil pouch promptly after taking out cartridges and retain the desiccant.

Match reagent supply to daily workload

Reagents are supplied in 25-test packs. Plan supply against the daily workload so opened reagents can be used within the assay-specific period.

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