



PRODUCT CATALOG



Immunoassay

(Multiplexed Bead Suspension Array)

Fully automatic flow fluorescence analyzer Maximum Throughput **TESMI F4000**

This platform based on the multiplexed bead suspension array technology is independently developed by Tellgen. The platform can realize multi-markers of immunoassay and the throughput can reach up to 1920 T/H. So far, more than 60 reagents have been developed on the platform, and there are hundreds of reagents under research. The single machine can complete all the testing items, and give full play to the efficiency of the instrument.



Fast

Throughput of up to 1920 T/H

Flexible

The joint assays and single assays can be flexibly combined according to the need

Economical

Save on consumables, logistics and storage costs

High-capacity

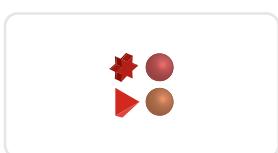
Up to 70 markers can be loaded simultaneously

Technical Principle



Encoded microspheres

Microspheres are color coded with fluorescent dyes.



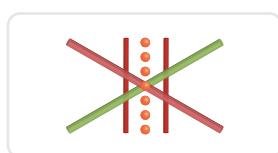
Covalent crosslinking

Interact with proteins or nucleic acid on the surface of microbeads to form covalent crosslinking.



Liquid phase reaction

Specific biological reactions occur on the surface of microspheres.



Laser analysis system

The fluorescence signal values are presented digitally.

FDA&NMPA certificated technology

Multi-results in one test

Test Menu

Joint Tumor Marker Assays

AFP+CEA	PG I+PG II
T-PSA+F-PSA	CEA+Cyfra21-1+NSE
AFP+CEA+Cyfra21-1+NSE+CA125+CA242+free-β-hCG	

Single Tumor Marker Assays

AFP	CEA	NSE
Cyfra21-1	CA125	CA15-3
CA19-9	CA72-4	CA242
CA50	SCCA	T-PSA
proGRP	HE4	Gastrin-17

FOBT

HB+TF (quantitative)

ToRCH

Toxo IgM+Rubella IgM+CMV IgM+HSV-I IgM+HSV-II IgM

Toxo IgG+Rubella IgG+CMV IgG+HSV-I IgG+HSV-II IgG (quantitative)

Autoimmune Disease

Antiuclear Antibody Spectrum:	dsDNA+Nucleosome+Histone+Jo-1+Scl-70+PM/Scl+Ribosomal P+SSB+SS-A 52+SS-A 60+RNP+Sm+AMA(M2-3E)+Cenp-B+PCNA+C1q
Autoimmue Liver Disease Antibody Spectrum:	AMA(M2-3E)+ LKM-1+LC-1+SLA+GP210+SP100
Vasculitis Antibody Spectrum:	PR3+MPO+GBM
Antiphospholipid Antibody Spectrum(IgM):	aCL+β2GP1(IgM)
Antiphospholipid Antibody Spectrum(IgG):	aCL+β2GP1(IgG)
Antiphospholipid Antibody Spectrum:	PLA2R
Anti-CCP Antibody:	CCP
Antiphospholipid Antibody Spectrum*(IgA):	aCL+β2GP1(IgA)
Myositis Antibody Spectrum*:	Mi-2+TIF1γ+MDA5+NXP2+SAE1+Ku+PM-Scl100+PM-Scl75+Jo-1+SRP+PL-7+PL-12+EJ+OJ+Ro52

Fertility

AMH

Cardiac Marker

NT-proBNP

Liver Fibrosis

PIINP+LN+CIV+HA

*upcoming

Immunoassay

(Chemiluminescence)

Fully Automatic CLIA Analyzer

TESMI i50

Tailored for small labs



- 60T/H
- Spec: 1 x 20 test/kit
- 400(W) x 660(D) x 625(H)mm, 60kg

Technical Specification

MODEL	TESMI i50
Test principle	Acridinium ester labeled direct CLIA assay
Time to 1st result	18min
Reagent capacity	10
Sample capacity	24
Sample type	Serum, plasma

Fully Automatic CLIA Analyzer TESMI i200



Ultra-long walkaway time

Intelligent

Easy operation,
Considerable consumables capacity for
walk-away assurance

Superior

Highly suitable for thyroid function test,
CV<5%

Scalable

Modular design,
Flexible configuration offering increased
productivity

Comprehensive

Thyroid, Cardiac, Tumor, Sex hormones,
Inflammation, Diabetests, Bone metabolism...

Technical Specification

Product name	Fully automatic CLIA analyzer	Testing principle	Acridinium ester chemiluminescence
Throughput	480 tests/hour/module	Reagent capacity	25 slots per module
Cuvette capacity	2000 cuvettes per batch	Sample capacity	300-1080, with looping loading
Cuvette loading	Automatic loading	Sample loading	Continuous loading by sample tracks
Model of operation	Random, batch, STAT	Sample dilution	Automatic dilution
Retest	Automatic retest of abnormal samples available, based on the predefined rules	Monitoring system	Reagent residue detection, alarm for insufficient and expired reagents
Magnetic separation	4-phase magnetic separation	Mixing unit	Non-touch vortex mixing
Reagent replacement	Automatic replacement during operation	Reserve reagent	4 positions
Walk-away tests	More than 7200	Configuration	One up to four analytical modules

Test Menu

Cardiac and Inflammatory Markers (10 Assays)

hs-cTnI	BNP	IL-6
CK-MB	NT-proBNP	PCT
MYO	D-Dimer	H-FABP
sST2		

Tumor Markers (23 Assays)

AFP	PG I	fPSA
CEA	PG II	tPSA
NSE	Gastrin-17	HE4
ProGRP	CA72-4	Ferritin
SCCA	CA242	β2-MG
CYFRA21-1	CA50	PIVKA-II*
CA125	CA19-9	HER2*
CA15-3	free-β-hCG	

Thyroid (11 Assays)

FT4	TSH	TRAb*
TT4	TPOAb	T-Uptake*
FT3	TgAb	TBG*
TT3	TG	

Sex Hormone (8 Assays)

AMH	PRL(prolactin)	Estradiol (E2)
FSH	Progesterone	β-hCG
LH	Testosterone	

Infectious Diseases (8 Assays)

HBsAg*	HBeAg*	HCV Ab*
HBsAb*	HBcAb*	HIV Ag/Ab*
HBeAg*	TPAb*	

Bone Metabolism (6 Assays)

25-OH VD	intact-PTH	Osteocalcin
Calcitonin	P1NP*	β-CTX*

Test Menu

Diabetes (2 Assays)

Insulin

C-Peptide

Anemia (2 Assays)

B12*

Hypertension (5 Assays)

Aldosterone ALD*

Renin*

ACTH*

Cortisol*

Ang II*

*upcoming

Laboratory Automation

The ultimate in space saving

Direct-connected Immunoanalyzer

Autoamtion

精灵快线 T6



Space Saving

Integrated pre-processing and modular design is compact and flexible. The pre-processing module is only 1.3m. Three tracks are built into the system. The detection instrument configuration can be selected on demand, making the space utilization more appropriate.

Cost Effective

It can not only meet the requirements of testing quality but also reduce the overall cost, so as to achieve the integration of resources.

Comprehensive Menu

Tellgen's supporting immunoassays can cover the majority of the immunoassay projects on the market. The comprehensive menu can improve the overall efficiency of the system.

Advantages



Function

Automatic loading: 300 tube/hour
Automatic centrifugation: 300 tube/hour
Automatic decapping: 300 tube/hour



Direct-connected

Reduce unnecessary external tracks.
Improve operation efficiency.



Configuration

TESMI i200
TESMI F4000
Freely choose the instruments (1 up to 4) to connect.

Molecular Platform

HPV

TEST MENU	SPECIFICATION
HPV 5+9(16/18/33/52/58 genotyping)	48 test/box
HPV 2+12(16/18 genotyping)	48 test/box

Lung cancer

TEST MENU	SPECIFICATION
SHOX2 and RASSF1A DNA Methylation PCR Kit 20 test/box	

Colon S9

TEST MENU	SPECIFICATION
	20 test/box
	50 test/box
	100test/box
Human methylated Septin9 DNA detection kit	20 test/box(Iyophilized)
	50 test/box(Iyophilized)
	100test/box(Iyophilized)

Personalized medicine

TEST MENU	SPECIFICATION
BRAF Mutation PCR Kit	24 test/box
EGFR Mutation PCR Kit	24 test/box
KRAS Mutation PCR Kit	24 test/box

Y6 microdeletion

TEST MENU	SPECIFICATION
Y6	20 test/box

Point-of-care Testing

Automatic Integrated Gene Detection System

AIGS



Fast

Results in 75min



Safe

Zero contamination



Easy

Manual operation in 2min



Flexible

4 individual testing channels



Diverse

5 fluorescence to choose from

Testing Procedure



Step 1 Add Sample



Step 2 Load Cartridge



Step 3 Report Results

TEST MENU	SPECIFICATION
SARS-CoV-2 Nucleic Acid Detection Kit (N1 gene + N2 gene)	24 test/box
SARS-CoV-2 Nucleic Acid Detection Kit (N gene + ORF1 gene)	24 test/box
SARS-CoV-2 / Influenza A / Influenza B	24 test/box
SARS-CoV-2 / Influenza A Influenza B / RSV	24 test/box
Influenza A Virus and Influenza B Virus	24 test/box
Human Papillomavirus Nucleic Acid Detection Kit and 16/18 Typing Kit	24 test/box
Dengue genotyping	24 test/box
Dengue / Zika/ Chikungunya	24 test/box
Mycobacterium tuberculosis complex	24test/box
Mycobacterium tuberculosis/ Haemophilus influenzae/ Streptococcus pneumoniae	24 test/box
Mycobacterium tuberculosis/ Mycobacterium avium/ Mycobacterium abscessus	24 test/box
RSV / Adenovirus / Mycoplasma Pneumoniae	24 test/box
EVU / CoxA16 / EV71	24 test/box
Monkeypox	24 test/box
Ureaplasma	24 test/box
Neisseria Gonorrhoeae	24 test/box
Herpes Simplex Virus Type II	24 test/box

Clinical Chemistry

Test Menu

Hepatic Panel

Alanine Aminotransferase (ALT)	Alkaline Phosphatase (ALB)	Prealbumin (PALB)
Aspartate Aminotransferase (AST)	γ -Glutamyl Transferase (GGT)	Adenosine Deaminase (ADA)
Total Bilirubin (T-Bil)	Alkaline Phosphatase (ALP)	5'- Nucleotidase (5'-NT)
Direct Bilirubin (D-Bil)	Cholinesterase (CHE)	α -L-Fucosidase (AFU)
Total Protein (TP)	Total Bile Acid (TBA)	Cholyglycine (CG)
Monoamine Oxidase (MAO)		

Renal Panel

Urea (UREA)	Cystatin C (Cys-C)	Neutrophil Gelatinase-Associated Lipocalin (NGAL)
Uric Acid (UA)	β 2-Microglobulin (B2-MG)	
Creatinine (CRE)	Retinol-Bind Protein (RBP)	

Lipid Panel

Cholesterol (CHOL)	Apolipoprotein A1 (ApoA1)	Lipoprotein-associated Phospholipase A2 (Lp-PLA2)
Triglyceride (TG)	Apolipoprotein B (ApoB)	Lipoprotein(a) (Lp(a))
High-Density Lipoprotein Cholesterol (HDL-C)	Apolipoprotein E (ApoE)	Non-esterified Fatty Acid (NEFA)
Low-Density Lipoprotein Cholesterol (LDL-C)	Small Dense Low-density Lipoprotein-cholesterol (sdLDL)	Homocysteine (HCY)

Cardiac Panel

Creatine Kinase (CK)	α -Hydroxybutyric Dehydrogenase (HBDH)	Lactate Dehydrogenase (LDH)
Creatine Kinase-MB (CK-MB)		

Diabetes Panel

Glucose (GLU) (Glucose Oxidase Method)	Glycosylated Hemoglobin (HbA1c)	Glycated Albumin (GA)
Glucose GLU (Hexokinase Method)	Adiponectin (ADPN)	Lactic (LAC)

Inorganic

Bicarbonate (CO2)	Magnesium (Mg)	Inorganic Phosphorus (IP)
Calcium (Ca)		

Test Menu

Specific Protein

C-Reactive Protein (CRP)	Immunoglobulin A (IgA)	Complement C1q (C1q)
Antistreptolysin O (ASO)	Immunoglobulin G (IgG)	Serum amyloid A protein (SAA)
Rheumatoid Factor (RF)	Immunoglobulin M (IgM)	Full-range C-reactive protein (FCRP)
D-Dimer (D-D)	Complement 3 (C3)	Anti-cyclic citrullinated peptide antibody (Anti-CCP)
Fibrinogen Degradation Products (FDP)	Complement 4 (C4)	

Pancreatitis Panel

α -Amylase (AMY)	Lipase (LPS)
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**DEEPEER
UNDERSTANDING
OF LIFE**



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