Thyroid. Hormone. Tumor Marker.

Automatic Chemiluminescence Immunoassay Analyzer



- High throughput of up to 150T/H
- Solution for tight lab spaces



Product Features



Applicable Scenarios



General Hospitals A&E Department

Comprehensive, Fast, Accurate Overall Solution for Cardiovascular and Inflammation



Supplement Extended Selection of Assays

Tumor Markers: proGRP, HE4, CA50, CA242; Cardiovascular Markers: H-FABP, D-dimer, sST2, etc.



Clinical Laboratories

Immediate Diagnosis

Suitable Quick Analysis in Fever Clinics, A&E Unit, Respiratory Clinics, Cardiology Unit, Pediatrics, etc.



Primary Care

Abundant Selection of Markers to Fulfil Day-to-day Screening and Diagnosis

Test Menu

A Speedy Solution to Cardiovascular and Inflammatory Events

Tellgen 'Tell You the Gene' series provide a fast and accurate platform for biological marker detection that aid doctors and health workers to diagnose diseases and customize treatment plans.

A Comprehensive Solution for Differential Diagnosis of Chest Pain

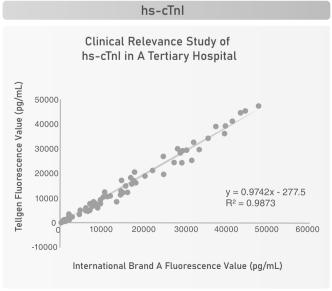
- Myocardial Infarction Quadruple
 hs-cTnI + CK-MB + MYO + hFABP
- Chest Pain Trio
 hs-cTnl + BNP/NT-proBNP + D-dimer
- Chest Pain Sextet
 hs-cTnl + CK-MB + MYO + hFABP + BNP/NT-proBNP + D-dimer

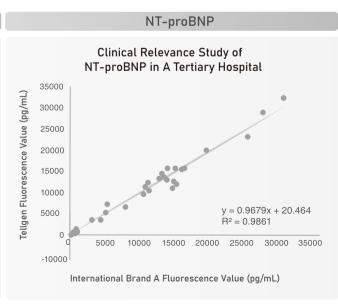
In the '2018 Guidelines for Diagnosis and Treatment of Heart Failure in China', it is emphasized that using multiple biomarkers could be the future of diagnosis and treatment. Chest pain differential diagnosis provides a quick and accurate early-stage differential diagnosis of chest pain, risk stratification, treatment monitoring, and prognostic assessment in patients with chest-pain, shortness-of-breath, dizziness, and chest-stuffiness. This combination shortens emergency treatment time, lowers the rate of missed and mis-diagnosis, and greatly improves diagnosis efficiency and treatment in patients with high-risk chest pain

A Comprehensive Solution for Heart Failure Management

BNP/NT-proBNP + ST2 for precise management of heart failure disease progression

Cardiovascular Marker Detection

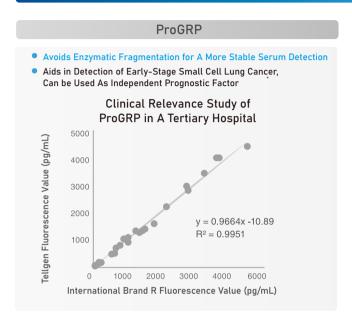


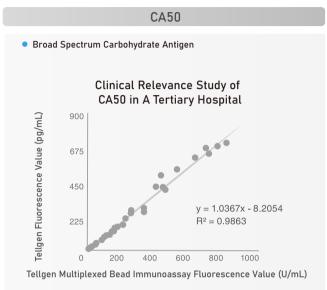


IL-6 + PCT for monitoring overall disease progression in bacterial infections/sepsis

In the '2021 National Medical Quality and Safety Improvement Target', PCT and IL-6 detection is emphasized to be as equally significant as microbial cultures in infectious diagnostics to provide inpatients' etiology submission rate before antimicrobial therapies. This combination is also listed in previous literatures such as 'Expert consensus on the interpretation of clinically significant infection-related biomarkers', 'Expert consensus of PCTs clinical application in the A&E unit', Pneumonia diagnosis and treatment plan for SARS-CoV-2 infections (fifth edition)', 'Diagnosis and treatment plan for severe and critical cases of pneumonia caused by SARS-CoV-2 infection (Trial Version 2)', etc.

Tumor Marker Detection





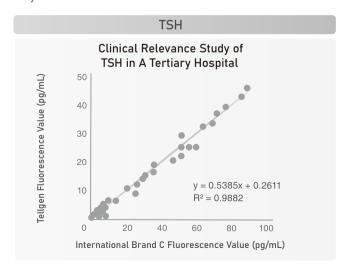
An overall Solution for Gastric Cancer Screening

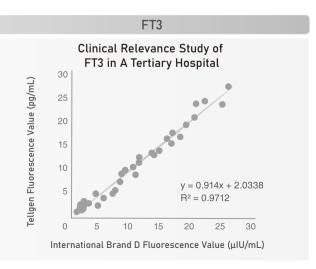
PG I + PG II + G-17 for gastric cancer screening

Atrophic gastritis (AG) is a well-recognized high-risk condition for developing gastric cancer, G-17 was significantly decreased with the exacerbation of antral atrophy in the coexistence of corpus atrophy. Low levels of pepsinogen and G-17 could discriminate between multifocal AG and other types of AG, but not with pepsinogen alone. Therefore, low serum levels of pepsinogen and G-17 are predictive indicators of extensive gastric atrophy with high-risk of early gastric cancer (Kikuchi et al., 2011).

Thyroid Function Detection

Acridinium ester has a small molecular weight, making it suitable for precise detection of small molecules, such as thyroid function.





Test Menu

Cardiovascular and Inflammatory Markers (10 Assays)	
hs-cTnI	IL-6
CK-MB	PCT
MYO	BNP
hFABP	NT-ProBNP
D-Dimer	ST2
Tumor Markers (23 Assays)	
AFP	ferritin
CEA	β2-MG
NSE	CA15-3
CYFRA21-1	proGRP
CA125	HE4
CA19-9	CA72-4
SCCA	CA24-2
tPSA	CA50
fPSA	G-17
free-β-hCG	PIVKA-II
PGI	HER2
PGII	
Thyroid Function Markers (8 Assays)	
TSH	TG
TT3	TgAb
FT3	TPO Ab
TT4	
FT4	
Hormone Markers (8 Assays)	
АМН	P
FSH	Т
LH	β-hCG
PRL	E2
Infectious Disease Markers (8 Assays)	
TP Ab	HBsAb
HCV Ab	HBeAg
HIV Ag/Ab	HBeAb
HBsAg	HBcAb
Bone Turnover Markers (6 Assays)	Diabetes Markers (2 Assays)
25-OH VD	Insulin
PTH	C-Peptide
Osteocalcin	
calcitonin	Anemia Markers (2 Assays)
P1NP	Folate
β-CTX	B12

Basic Parameters

Model	TESMI i100
Throughput	150 T/H, 120 T/H for two-step immunocapture technique
Reaction Time	6+6 mins
Testing Principle	Acridinium ester chemiluminescence
Reagent Slots	15, flexible exchange and addition, with refridgeration function
Sample Slots	24, flexible exchange and addition
Reaction Cup Slots	130 cups, can be added anytime
A&E Function	Flexible on-the-spot priority testing
Sample Type	Supports vacutainers and micro sample cups
Weight	105kg
Dimension	500mm x 666mm x 678mm (W*D*H)

Smart System

- One-click maintenance function
- Liquid level detection, empty suction alert, blocked needle alert
- Real-time monitoring with alarm of liquid and waste
- Smart display of sample rack condition
- Supports various vortexing modes
- Supports diverse testing modes
- Self-diagnose, self-process, and self-protect under abnormal situations

- 2 independent mechanical claws work fast and efficiently
- 2 independent needles for adding sample and reagents
- Unique incubation and washing technique
- Smart data analyzing, automatic detection of abnormal data
- Negative pressure suction needle design, stable and reliable
- Supports real-time dilutions
- External bucket liquid level detection
- Two vortex mixing structures for sample-reagent vortex and substrate vortex

Software System

- Random, batch, emergency operation modes
- Supports LIS system for two-way data transfer
- Remote IoT service function

- 10-inch touch-screen with graphical operational interface
- 24-7 remote online technical support and maintenance

Tellgen Corporation

Address: Building 1, No. 115, Lane 572, Bibo Road, Free Trade Area, Shanghai, People's Republic of China Postal Code: 201203 Website: www.tellgencorp.com

Email: sales@tellgen.com Tel: +86-21-50800020



