UDi

UNITED DIAGNOSTICS INDUSTRY

UDiLiz-120

Chemiluminescence Immunoassay (CLIA) System

CE

www.udignost.com

Outstanding Technology Power of UDiLiZ-120

Chemiluminescence Immunoassay (CLIA) System

CLIA uses two important technologies, one is label technology which determines reactive mode; and the other is separation technology which determines the sensitivity, accuracy, and precision of the reagents.

Labeling Technology

Two types of labeling technologies are commonly used. One contains enzyme labels and other non-enzyme small molecule labels. Enzyme label reagents are not so stable and are easily affected by the change of storage conditions. UDiLiZ-120 system applies ABEI labels. ABEI is a small non-enzyme molecule with special molecular formula to enhance stability in acid and alkaline buffer. As fast chemiluminescence, ABEI chemical reaction with sodium hydroxide (NaOH) and Hyperoxide (H_2O_2) finishes the process in 3 seconds.

Separation Technology

UDiLiZ-120 uses Nano Magnetic Microbeads, As separation technology, nano magnetic microbeads has been widely used in the field of CLIA. Compared with traditional separation technologies, it has four major advantages:

- It helps in enlarging the reaction area of antigens and antibodies to shorten the reaction time.
- Better and faster capture of the antigens and antibodies to enhance the sensitivity.
- As a liquid separation platform,it mixes thoroughly with the reagents to significantly reduce inter-or intra-assay discrepancies.
- Absorbs the antigens or antibodies through chemical reaction to enhance the accuracy.

TEST MENU

Tumor Markers

Ferritin
AFP
CEA
Total PSA
f-PSA
CA 125
CA 15-3
CA 19-9
PAP
CA 50
CYFRA 21-1
CA 242
CA 72-4
NSE
S-100
TPA
PG I
PG II
SCCA

Cardiac

CK-MB
Troponin I
Myoglobin
NT-proBNP
Aldosterone
Angiotensin I
Angiotensin II
D-Dimer

Drug Monitoring

Cyclosporine A
Tacrolimus,FK506
Digoxin

Thyroid

TSH
T4
T3
FT4
FT3
TG
TGA
TRAb
TMA
Anti-TPO
Rev T3

Hepatic Fibrosis

HA
P III P N-P
C IV
Laminin
Cholyglycine

Glyco Metabolism

C-Peptide
Insulin
IGF-I
ICA
IAA
Proinsulin
GAD65

Prenatal Screening

AFP
free β-HCG
PAPP-A

Inflammation Monitoring

PCT
CRP

Fertility

FSH
LH
HCG/β-HCG
PRL
Estradiol
free Estriol
Progesterone
Testosterone
free Testosterone
PAPP-A

Infectious

HBsAg
HBsAb IgG
HBeAg
HBeAb IgG
HBcAb IgG
HCV IgG
*HIV
*Syphilis

Bone Metabolism

Intact PTH
Calcitonin
Osteocalcin
25-OH Vitamin D

Anemia

Vitamin B12
Ferritin
FA

TORCH

Toxo IgG
Toxo IgM
Rubella IgG
Rubella IgM
CMV IgG
CMV IgM
HSV-1/2 IgG
HSV-2 IgG
HSV-1/2 IgM

EBV

EBV EA IgG
EBV EA IgA
EBV VCA IgG
EBV VCA IgM
EBV VCA IgA
EBV NA IgG

Immunoglobulin

IgM
IgA
IgE
IgG

Kidney Function

β2-MG
Albumin

Others

GH
Cortisol
ACTH
DHEA-S

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Certified to ISO 9001:2008

UDiLiz-120

Chemiluminescence Immunoassay (CLIA) System

Technical Specifications

Principle of Luminescence	• Non-enzyme involved flash chemiluminescence, long stability of reagents • ABEI label, stable in acid and alkaline buffers
Main Features	• Throughput: up to 120 tests/hour • 24 hours ready-to-use • Time to first result:17 minutes
Modes of Operation	• Random, Batch and STAT function
Sample Loading	• Up to 144 sample tubes • Continuous loading, STAT available • Analyzer auto numbered • LIS connection
Reagent Loading	• 15 reagents on board • Continuous loading • RFID reading all info of reagent • Refrigerated reagent area
Reagent Features	• Integrated kit, ready-to-use, no pretreatment required • Integrated kit including calibrator • Using superparamagnetic microbeads • RFID tag storing all info of reagent • RFID tag with built-in master curve • 2-point calibration to adjust master curve • Calibration stability: Max 4 weeks
Other Features	• Clot detection • Liquid level detection for reagent • Optional ratio for sample dilution • Auto dilution for high concentration sample • Constant 37℃ incubation • 15-30℃ Operating Temperature
Interconnection	• Connection to LIS via COM or network • Direct operation on LIS system to test
Dimensions Weight	• 135×64×87cm, 148kg

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United Diagnostics Industry

Plant: Tel: +966 3 812 2004 / 812 3055 - Fax +966 3 812 1704
P.O. Box 9466 - Dammam 31413

Sales Offices:
Dammam: Tel: +966 3 822 3122 Fax: +966 3 822 4330
Jeddah : Tel: +966 2 658 7141 Fax: +966 2 658 1884
Abha : Tel: +966 7 220 6433 Fax: +966 7 220 8557
Email: export@udignost.com

Riyadh: Tel: +966 1 263 1196 Fax: +966 1 263 6154
Madina: Tel & Fax: +966 4 842 1495
Kingdom of Saudi Arabia - Web: www.udignost.com