MAGLUMI 800

Chemiluminescence Immunoassay (CLIA) System

Outstanding Technology
Power of Maglumi

Chemiluminescence Immunoassay (CLIA) System

CLIA uses two important technologies, one is labeling technology which determines reaction 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 is enzyme label and the other is non-enzyme small molecule label. Enzyme label reagents are not so stable and are easily affected by the change of storage conditions. Maglumi system applies ABEI labels. ABEI is a non-enzyme small molecule with special molecular formula to enhance stability in acid and alkaline solution. As fast chemiluminescence, ABEI chemical reaction with sodium hydroxide (NaOH) and Hyperoxide (H_2O_2) finishes the process in 3 seconds.

Separation Technology

Maglumi uses Nano Magnetic Microbeads. As separation technology, it has been widely used in the field of CLIA. Compared with traditional separation technology, it has the following advantages:

- Shortening the reaction time by enlarging the reaction area of antigens and antibodies.
- Enhancing the sensitivity by better and faster capture of antigens and antibodies.
- Reducing inter or intra-assay discrepancies significantly by mixing the reagents thoroughly in a liquid separation platform.
- Enhancing the accuracy by absorbing antigens and antibodies through chemical reaction.

Mkt. by:

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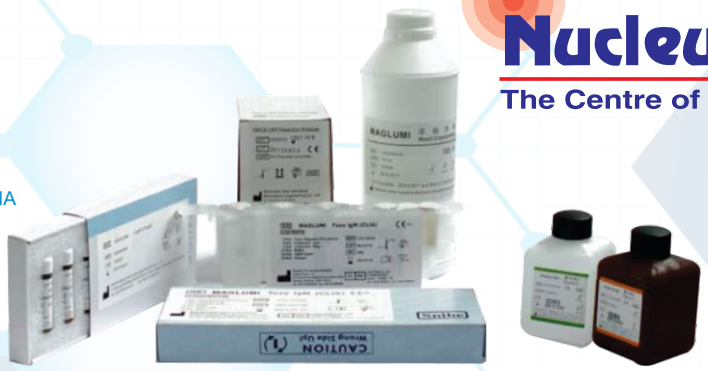

Tumor Markers

- 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
- Pepsinogen I
- Pepsinogen II
- SCCA
- *Gastrin-17

Bone Metabolism

- Intact PTH
- Calcitonin
- Osteocalcin
- 25-OH Vitamin D

Glyco Metabolism

- C-Peptide
- Insulin
- ICA
- IAA
- Proinsulin
- GAD 65
- IA-2

Fertility

- FSH
- LH
- HCG/β–HCG
- PRL
- Estradiol
- free Estriol
- Progesterone
- Testosterone
- free Testosterone
- DHEA-S
- *AMH

Thyroid

- TSH
- T_4
- T_3
- FT_4
- FT_3
- TG
- TGA
- TRAb
- TMA
- Anti-TPO
- Rev T_3

Prenatal Screening

- cAFP
- free β –HCG
- PAPP-A

Inflammation Monitoring

- CRP
- PCT

Kidney Function

- $β_2$-MG
- Albumin

Hepatic Fibrosis

- HA
- PIIIP N-P
- C IV
- Laminin
- Cholyglycine

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

Anemia

- Vitamin B_{12}
- Ferritin
- FA

Drug Monitoring

- Cyclosporine A
- Tacrolimus, FK 506
- Digoxin

Cardiac

- CK-MB
- Troponin I
- Myoglobin
- NT-proBNP
- Aldosterone
- Angiotensin I
- Angiotensin II
- D-Dimer
- *Renin(PRC)
- *LP-PLA2

Infectious

- HBsAg
- Anti-HBs
- HBeAg
- Anti-HBe
- Anti-HBc
- Anti-HCV
- *HIV
- *Syphilis
- *Chagas
- *HTLV
- *Anti-HAV
- *HAV IgM
- *H.pylori IgG

Others

- GH
- IGF-I
- Cortisol
- ACTH

*Under development

Product availability subject to required regulatory approval