



The Siemens DCP IMMULITE Automated Immunoassay System is a continuous, random access instrument that performs automated chemiluminescent immunoassays.

The Siemens DCP IMMULITE System utilizes assay-specific, antibody, or antigen-coated plastic beads as the solid phase, alkaline phosphatase-labeled reagent, and a chemiluminescent substrate. The coated bead is housed in a proprietary plastic device, namely a Test Unit. This Test Unit serves as the reaction vessel for the immune reaction, the incubation and washing processes, and the signal development.

The Siemens DCP IMMULITE System automates the entire assay process. After incubating the bead with the sample and the alkaline phosphatase reagent, the reaction mixture is separated from the bead by spinning the Test Unit at high speed on its vertical axis. The entire fluid contents (the sample, excess reagent, and wash solution) are transferred to a coaxial waste chamber in the Test Unit. The bead is left with no residual, unbound label. The bound label is then quantitated with a dioxetane substrate that produces light. Light emission is measured by a photomultiplier tube (PMT) and the results are calculated for each sample. Printed reports for each sample are generated by the system's computer.

The Siemens DCP IMMULITE has two operating modes: Standard and Turbo. The Turbo mode essentially operates the same as the Standard mode, except the time to first result is faster. This allows for true "STAT" functionality for urgent situations such as cardiac markers or pregnancy detection. This manual covers both modes of operation concurrently since they are identical, other than speed.

The Siemens DPC Immulite Environmental

Siemens Immulite Electrical: 110 – 120V 6 AMP 200 – 240V 4 AMP 50/60 Hz

Siemens Immulite Dimensions

Siemens Immulite Height: 16 in/41 cm

Siemens Immulite Width: 40 in /102 cm

Siemens Immulite Depth: 24.75 in / 63 cm

Siemens Immulite Weight: 240lbs/109kg

Siemens DPC Immulite Test Menu

Allergy

- Ala TOP Allergy Screen
- ECP
- Total IgE

Anemia/Iron Metabolism

- Ferritin
- Folate
- RBC Folate
- Vitamin B12

Bone Metabolism

- Osteocalcin
- PTHrP

Cardiac

- CKMB
- D-Dimer
- High-Sensitivity CRP
- Myoglobin
- NT-proBNP
- Troponin I

Diabetes

- C-Peptide
- Insulin
- Microalbumin

Growth

- Growth Hormone (hGH)
- IGF-I
- IGFBP-3

Hepatitis

- Anti-HBs
- Anti-HBc IgM

- Anti-HBc Total
- HBs Ag
- HBs Ag Confirmatory

Inflammation

- IL-1B
- IL-10
- IL-2R
- IL-6
- IL8
- LBP
- TNF-a

Metabolic

- ACTH
- Cortisol
- Homocysteine

Oncology

- AFP
- CA 125 (OM-MA)
- CA 15-3 (BR-MA)
- CA 19-9 (GI-MA)
- Calcitonin
- CEA
- Free PSA
- PAP
- PSA
- PSA 3rd Generation
- 1 TPS

Reproductive Endocrinology

- Androstenedione
- DHEAS
- Estradiol
- Free Beta HCG
- FSH
- hCG
- LH
- PAPP-A

- Progesterone
- Prolactin
- SHBG
- Testosterone
- Unconjugated Estriol

Special ID

- H. pylori IgG

Therapeutic Drug Monitoring (TDM)

- Carbamazepine
- Digoxin
- Phenobarbital
- Phenytoin
- Theophylline
- Valproic Acid

Thyroid

- Anti-TG
- Anti-TPO
- Free T3
- Free T4
- Intact PTH
- T Uptake
- TBG
- Thyroglobulin
- Total T3
- Total T4
- TSH
- TSH 3rd Generation

ToRCH

- CMV IgG
- CMV IgM
- Herpes I & II IgG
- Rubella IgG
- Rubella IgM
- Toxoplasma IgG
- Toxoplasma IgM

Veterinary

- Canine TLI
- Canine Total T4
- Canine TSH
- Canine FT4

Other

- β -2 Microglobulin
- Gastrin
- Nicotine Metabolites