



Technical Specifications

General Information		Magnetic Separation Unit	
Throughput	Up to 180 tests/hour	Separation Assembly	
Measurement Principle:		4-phase magnetic separation	
	Micron superparamagnetic particles platform with alkaline phosphatase (ALP) labeled reagents and AMPPD substrate	Accuracy:37±0.3℃, fluctuation: ±0.2℃	
		Measurement and Reaction System	
		Detection Mode	Photon counting
Sample Assembly		Signal Detector	Photomultiplier (PMT) photon counter
Sample Feeder	Continuous sample loading and offloading by sample rack	PMT Calibration	LED reference module
		Reaction Carousel	75 positions
Sample Rack	10 Position per rack, same as BS-800/BS-2000/CL-2000I series	Temperature	Accuracy: 37±0.3℃, fluctuation: ±0.2℃
		Mixing Unit	Non-touch vortexer mising
Sample Capacity	Up to 60 samples in one batch		
Sample Probe	Steel probe, liquid level detection, clot detection, horizontal and vertical collision protection	Cuvette Loading and Waste Collection	
		Cuvette	Disposable plastic cuvette
		Cuvette Loading	88 cuvettes per tray, two trays can be loaded in one batch, continuous loading and offloading
Sample Volume	10μl~200μl, with increment of 1μl		
Sample Dilution	Automatic dilution with 1:2 ~:80	Waste Collection	Waste container, 185 cuvettes per box
		Working Conditions	
Reagent Assembly		Poser Supply	100V/115V~60Hz;220V-240V~,50Hz; 220V/230V~60Hz
Reagent Disk	25 reagent positions, continuous loading, real-time mixing for magnetic particles	Input Power	2000VA
Cooling System	2℃~8℃	Operating Temperature	15℃~30℃
Reagent Pack	50 tests per pack, 100 tests per pack	Relative Humidity	35% RH~80%RH, without condensation
Reagent Scanning	Built-in/external bar code reader scanning	Dimension	Main Unit: 1400MM* 760mm *600mm(W*D*H)
Reagent Probe	Steel probe, Liquid level detection, bubble detection, horizontal and vertical collision protection		Weight:225kg
		Altitude Height	-4010m~4000m
Reagent Volume	20μl~200μl, with increment of 1μl		
Substrate System			
Substrate Bottle	300/500 tests per bottle, bottom piercing		
Substrate Loading	Capable of continuous loading during testing		
Substrate Heating	Constant heating		
Aspiration Volume	200μl		



Aspen CL-Plus

Chemiluminescence Immunoassay System

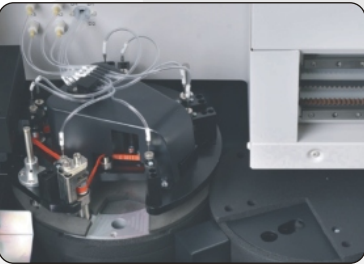


Simply yet Robust



Aspen CL-Plus

Chemiluminescence Immunoassay System



Enhanced Reaction System
4-phase magnetic separation with precisely controlled temperature
Consistent performance reliability with enhanced PMT detection system
Non-touch vortexer mixing for reaction solution without any contamination

Simply yet Robust



Intuitive Software Interface
Unified software interface, significantly reduces training effort
Smooth interchange by intuitive software navigation
Easy access to touch screen monitor with swing arm (optional)



Test Menu

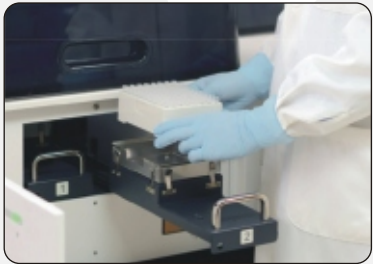
Thyroid	Fertility	Metabolic	Tumor Marker
FT3	Total β-HCG	Intact PTH	CEA
FT4	FSH	Calcitonin	AFP
T3	LH	Vitamin D total	CA125
T4	Prolactin	Ferritin	CA 15-3
TSH	E2	Vitamin B12	CA 19-9
Anti-TG	E3	Folate	FPSA
Anti-TPO	TESTO	RBC Folate	TPSA
Thyroglobulin (TG)	prog		NSE
TRAB*	Free testisteribe*	Diabetes	CYFRA 21-1
rT3*	17-OH OROG	Insulin	CA 72-4
	SHBG*	C-peptide	ProGRP*
			PG I*
			PG II*
Down's screening	Growth hormone	Others	SCCA*
PAPP-A*	hGH*	ACTH	HE4*
Free β-HCG*	IGF-1*	DHEA-S	Ca242
	AMH*	Cortisol	CA50*
Infectious Disease	Cardiac	Liver fibrosis	Inflammation
HBsAg	CK-MB	LN*	PCT*
Anti-HBs	Myoglobin	HA*	
HBeAg	Troponin I	PIIINP*	
Anti-HBe	BNP	C IV*	
Anti-HBc	Angiotension I*		
HIV combo	Angiotension II *		
Anti-HCV	Renin*		
Anti-TP	Aldosterone*		
AntiHBc IgM*			
HBeAg quantitative*			



Sample & Reagent Probe
Precisely controlled syringe motors offer high precision aspiration
Intelligent liquid level detection, clot detection, vertical and horizontal collision protection
Efficient interior & exterior probe wash with high pressure wash buffer
Programmable enhanced probe wash with detergent



Sample Handling
Samples loading and offloading continuously by sample racks
Unified sample racks with detachable adaptor
Rack status real-time indicting on lane numbers
STATs prioritized fast



Consumables Management
Random access for cuvette loading without pause or stop
88*2 cuvettes in one batch, 200 cuvettes per waste bag
Cuvettes & waste bag status real-time indicating



Reagent & Substrate Handling
Easy for reagent & substrate handling, liquid reagents ready-to-use 2°C~8°C non-stop refrigerated reagent carousel featured 25 positions
Same reagent pack size with CL Plus (50 tests/100 tests per pack)
Reagents stable on board for up to 56 days