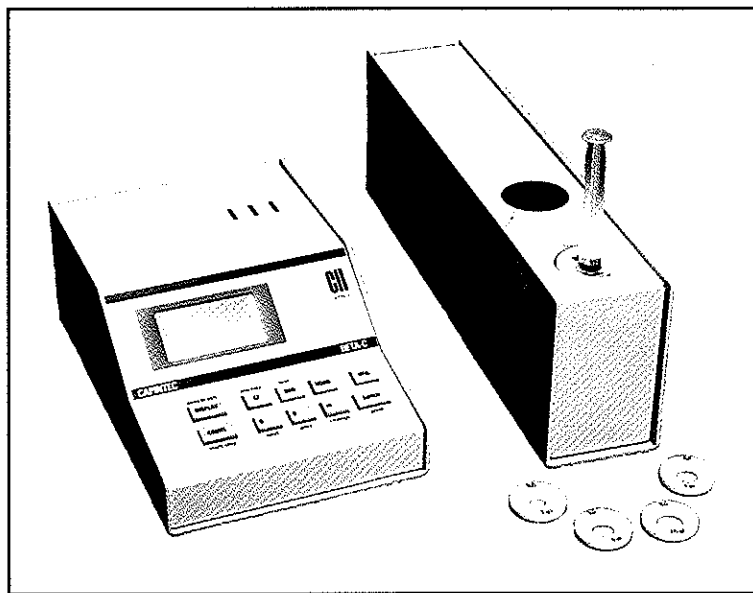


CRC[®]-Beta Enhanced Counter

Accurate Beta Counting Simplified



Item #5130-2170

- Auto assay of pure Beta emitting radionuclides such as Sr-89, P-32 and Y-90
- Optimized counting geometry with auto-compensation for sample container and volume
- User definable calibration factors for over 20 nuclides for each location
- Automatic background subtraction, System test, QC programs and Auto-calibration
- On-screen display of Nuclide Activity, Count Rate, Counting Period and Energy Histogram
- User selectable thresholds for Background, Counting Precision and Impurity Level
- Optional printer for full reports of assayed radionuclides, daily test results and diagnostics

Fast accurate measurement of today's newest radiopharmaceuticals including Y-90

Greater Field of View

Extended Measurement Range

Two (2) Positions for Source Location

Correction factors individually stored for each measurement location

Autocalibration can be performed at either location

Customized holders available upon request

The Capintec CRC[®]-Beta Enhanced Counter adds a new dimension to radionuclide measurement. Engineered specifically for pure Beta emitters such as P-32, Sr-89 and Y-90, the CRC[®]-Beta Enhanced Counter takes the guesswork and errors out of your Beta assays. Exacting attention to sample container, sample volume, activity concentration and impurity containment assure you accurate and precise results every time. Based upon optimized electronics and counting geometries, the CRC[®]-Beta Enhanced Counter offers uncompromised measurements combined with fast response times.

As a leader in energy measurement devices, Capintec's goal is to meet your demands with the latest, highest quality, cost effective solutions.

Product Details

The CRC[®]-Beta Enhanced Counter offers physicians and radiopharmacies the most accurate method for proper assaying of activity. Time previously spent trying to optimize your dose calibrator for proper assaying is eliminated. Reproducible geometries and fine tuning calibration numbers are all things of the past thanks to the sophisticated architecture of the CRC[®]-Beta Enhanced Counter.

	Low Activity	High Activity
Maximum Activity	25mCi pure energy Beta emitter 200uCi pure Gamma emitter	100mCi pure energy Beta emitter 800uCi pure Gamma emitter
Field of View	8ml in 10ml syringe	9.5ml in 10ml syringe

Capintec, Inc.

Using an optimized detector assembly, procedures are quickly performed with all results displayed on an easy-to-read graphic panel. Information for sample container type, selected nuclide and impurity factors are easily set via the step-through menu and system keyboard. Trigger thresholds for background rates, impurity levels and counting precision values are user definable along with readings in curies or becquerels.

System memory accepts calibration factors for over 20 radionuclides with compensation values for sample containers. Other capabilities include test source data storage with automatic decay correction for today's time and date. System tests, auto-calibration and QC tests are built-in along with automatic background subtraction. An optional printer offers hard copy print-outs of all information displayed on the screen plus diagnostic and daily test information for quick reference.

Detector		Overall Accuracy	
Type	Nal (TI) scintillator optimized for Beta counting	Accuracy	Better than $\pm 5\%$ relative to a standard sample used to calibrate the system
Sample Distance	10 cm (4") and 20cm (8")	Standard Source Data	
Shielding	0.6cm (1/2") lead collimator	System Memory	Cs-137 Standard Source
Cabling	91 cm (36") triaxial cable	Display Screen	
Measurement Range		Type	Liquid Crystal Display
Type	Auto Ranging	Format	128 columns x 64 rows
Activity	100 mCi of Sr ⁹⁰ , typical (also measures up to -1mCi of Gamma emitters)	Readings	Direct in cpm, cps, conversion to mCi or MBq with conversion factors
Counting Rate	50 kcps, max.	Detector Inserts	
Measurement Periods		Test Source	30 cc "E" vial, 10cc vial
Type	User definable	Syringes	3cc, 5cc, and 10cc
Range	2 sec. min. 1800 sec. max. 6 sec., typical	Printer (Optional)	
Trigger Levels		Interface	Rs-232C Protocol
Type	Background, counting precision and containment level	Type	Two color, strip method
Range	User definable	Capabilities	Printing of measured results and tests
Energy Discrimination		Power Requirements	
Channels	Fixed 6 channel MCA	90-127 VAC (50/60 Hz)	0.10A
Channel Ranges	Ch 1: 30-100 keV	180-250 VAC (50/60Hz)	0.05A
	Ch 2: 100-200 keV		
	Ch 3: 200-400 keV		
	Ch 4: 400-660 keV		
	Ch 5: 660-800 keV		
	Ch 6: Over 800 keV		
Tests		Dimensions	
Diagnostics	Full test of program, system memories	Display Unit	
Calibration	Automatic with Cs-137 source	Dimensions	11.1 cm x 18.4 cm x 28.6 cm (4.375" x 7.25" x 11.25")
Daily	Automatic background subtraction and instrument test	Weight	2.4 kgm (5.25 lbs)
		Detector Unit	
		Dimensions	14 cm x 8.3 cm x 41.9 cm (5.5" x 3.25" x 16.5")
		Weight	8.2kgm (18lbs)

