

Alpha/Beta Sample Counter - Model 3030E_with_43-10-1

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Specifications

TUBE: 5.1 cm (2 in.) diameter magnetically shielded photomultiplier

WINDOW: 0.4 mg/cm² aluminized Mylar

ACTIVE and OPEN AREA: 20.3 cm²

SAMPLE HOLDER: aluminum housing with sample tray capable of holding up to a 5.1 cm (2 in.) diameter sample

EFFICIENCY(4π):

alpha: 32%⁻²³⁰Th; 39%⁻²³⁸U; 37%⁻²³⁹Pu

beta: 5%⁻¹⁴C; 22%⁻⁹⁹Tc; 29%⁻¹³⁷Cs; 26%⁻⁹⁰Sr/⁹⁰Y

CROSS TALK:

alpha to beta: 10% or less

beta to alpha: 1% or less

BACKGROUND:

alpha - 3 cpm or less

beta-gamma - typically 80 cpm or less (10 μR/hr field)

SOFTWARE: PC based to perform setup and calibration routines including background subtract, crosstalk correction, cpm/dpm modes, daily QC check parameters, alarm levels, and automatic plateaus. All parameters are stored in the instrument in non-volatile memory. The supplied software is capable of logging and storing the following:
Sample Number, Sample Date, Sample Time, Alpha Count, Beta Count, Sample Type, Comments

ELECTRONICS:

SIZE: 21.6 x 12.7 x 23.6 cm (8.5 x 5 x 9.3 in.) (H x W x L)

WEIGHT: approximately 2.7 kg (6 lb)

COUNTER HEAD:

Size: 23.6 x 11.4 x 23.6 cm (9.3 x 4.5 x 9.3 in.) (H x W x L)

Weight: 1.9 kg(4.1 lb)

