

GeneQuant pro and GeneQuant RNA/DNA Calculators

Cells				
Catalog No.	Concentration Range after Dilution*	Volume	Available Sample Suggested Cell Type	Pathlength
CGS 8135.39	5 to 125 ng/μl	> 2000 μl	Standard	10 mm
CGS 8136.39	5 to 125 ng/μl	> 500 μl	Semi-Micro	10 mm
CGS 8137.39	5 to 125 ng/μl	> 70 μl	Microvolume	10 mm
CGS 8138.39	10 to 250 ng/μl	> 7 μl	Ultra Microvolume**	5 mm
CGS 8139.39	100 to 2500 ng/μl ***	> 3 μl	Capillary	0.5 mm
CGS 8140.39	—	—	Spare Capillaries, pkg. of 100	—

Selecting the Appropriate Cell

A range of measuring cells enables a wide range of sample volumes to be analyzed. Small sample volumes (about 3 μl) of high concentration can be measured without dilution. Larger volumes of dilute solutions can also be measured, ensuring sensitivity, flexibility and convenience for the user.

Original GeneQuant

The original GeneQuant is available for those users who wish only to quantify Nucleic Acids, since it measures absorbance at 230, 260, 280 and 320 nm. There is no base sequence facility or printer port, but performance can be verified using the calibration check filter set.

Specifications

Wavelength Range	Fixed at 230, 260, 280, 320, 595, 600 nm
Monochromator	Czerny-Turner configuration with 1200 lines/mm holographic grating
Wavelength Calibration	Automatic upon switch on
Spectral Bandwidth	5 nm
Wavelength Accuracy	±1 nm
Wavelength Reproducibility	Better than ±0.5 nm
Light Source	Deuterium arc
Detector	Silicon photodiode
Photometric Range	0 to ±3.000 A for 230, 260, 280, 320 nm 0 to ±2.000 A for 595, 600 nm
Photometric Linearity	±1.0% or ±0.005 A to 3.000 A, whichever is the greater
Photometric Reproducibility	0.5% of absorbance value
Stray Light	< 0.1%T at 280 nm using Acetone
Digital Output	Centronics parallel as standard 9 pin serial via interface adapter lead
Dimensions, H x W x D	160 x 270 x 320 mm (6.3 x 10.6 x 12.6 in)
Weight	4 kg (8.8 lb)
Power Requirements	100 to 240 VAC ±10%, 50/60 Hz, 80 VA



Catalog No. Product

CGS 8141.39	GeneQuant pro RNA/DNA Calculator (includes Dust Cover)
CGS 8142.39	GeneQuant RNA/DNA Calculator
CGS 8143.39	GeneQuant pro User Manual (Multi-Language)
CGS 8144.39	GeneQuant User Manual (Multi-Language)
CGS 8145.39	GeneQuant pro Service Manual
CGS 8146.39	GeneQuant Calibration Check Filter Set
CGS 8147.39	Printer Stand
Inquire	Seiko DPU-414 Printer Enquire (includes Parallel Cable)
CGS 8148.39	Parallel Interface Cable (Centronics)
CGS 8149.39	Interface Adapter for Serial Connection
CGS 8150.39	Spare Dust Cover
CGS 8151.39	Deuterium Lamp for GeneQuant pro
CGS 8152.39	Deuterium Lamp for GeneQuant
CGS 8153.39	Basic UV/Visible Spectrophotometry Booklet
CGS 8154.39	Side Arm Cell Spring Clip for GeneQuant