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DyNA Quant™ 200 Fluorometer

- **Quantitates DNA selectively in the presence of protein, RNA and nucleotides with the Hoechst 33258 assay.**
- Measures DNA accurately from 10 ng/ml to 5 µg/ml, final assay concentration, in a standard 4 ml fluorometry cuvette.
- Detects down to 1 ng of DNA in 3 µl with the capillary cuvette adapter accessory.
- Automatically transfers results to a computer or printer through an serial communication port.
- Uses minimal bench space with a compact footprint: 16 × 35 × 12 cm (W × D × H).
- Can assay enzymes such as b-glucuronidase (GUS), b-galactosidase, proteases and NAD(P)H-coupled systems.

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Order Information				
Product	Pack size	Info	Product Code	Price
DyNA Quant 200 Fluorometer 115/230 VAC	1		80-6406-80	country select
<i>Includes: H33258 and Calf Thymus DNA. (Order fluorometry cells separately.)</i>				
Accessories and other items				
Hoechst 33258 Dye	100 mg		80-6226-87	country select
Calf Thymus DNA, Fluorescence standard (dried)	250 µg		80-6227-06	country select
4-MU standard kit 4-methylumbelliferone	100 mg		80-6227-25	country select
Performance Validation kit	1		80-6252-52	country select
Fluorometry Cells				
Glass fluorometry cuvette	1		80-6227-44	country select
Capillary adapter kit	1		80-6227-63	country select
<i>Includes: 10, 50 and 100 µl capillary tubes (20 of each).</i>				
Capillary tubes, 10 µl	100		80-6227-82	country select
Capillary tubes, 50 µl	100		80-6228-20	country select
Capillary tubes, 100 µl	100		80-6228-01	country select
Capillary Cuvette adapter kit	1		80-6228-39	country select
<i>Includes: 9 µl capillary tubes (250 per package).</i>				
Capillary tubes, 9 µl, glass	250		80-6228-58	country select

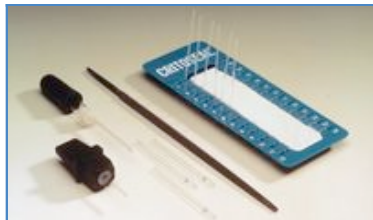
Customers who bought these also bought:				
ReproGel Long Read	10 gels		17-6001-09	country select
SEALING COMPOUND/CAP TUBES (6)	1 EA		TKO120-S	country select

DyNA Quant™ 200 Fluorometer

Technical Information



DyNA Quant 200 Fluorometer accurately measures DNA using the Hoechst dye binding assay.



The optional capillary adapter kit includes components needed to assay 10, 50 and 100 µl samples.

DyNA Quant™ 200 is a fixed wavelength fluorometer for 365 nm excitation and 460 nm emission. The spectral characteristics are specifically designed for the detection of double-stranded DNA using the standard Hoechst 33258 dye binding assay, which minimizes interference from the presence of protein, RNA, and nucleotide contaminants. The unit is also ideal for most standard fluorescence based assays in solution, including fluorescent probe protein labeling, GUS, b-Gal, and NAD(P)H-coupled systems.

For conversion data for nucleic acids, see *Technical Appendix*.

TECHNICAL SPECIFICATIONS

Power requirements	90-260 VAC, 47-63 Hz
Light source	Mercury lamp (expected life 5000 h)
Excitation range	365 nm ± 7 nm @ FWHM
Emission range	460 nm ± 15 nm @ FWHM
Detector	Silicon photodiode
Sensitivity	10 ng/ml in standard 1 cm path cuvette (Hoechst 33258 DNA assay)
Data output	16 × 2 LCD, RS-232 at 1200 bps
Dimensions	16 × 35 × 12 cm (W × D × H)
Weight	2.10 kg
Safety certifications	CE 89/336/EEC (EMC directive) CE 73/23/EEC (LV directive) EN-61010-1 (IEC1010-1, UL3101-1, CSA22.2 1010-1)

TECHNICAL SPECIFICATIONS

Detection ranges for double-stranded DNA for DyNA Quant 200 sample options

Cuvette Type	Volume (µl)	Range* (ng)
Glass cuvette, 1 cm	2000	20-10 000
Capillary tube, 10 µl	10	25-1500
Capillary tube, 50 µl	50	1-1500
Capillary tube, 100 µl	100	10-1500
Capillary tube, 9µl, in cuvette adapter	3-9	1-500

* Actual amount in diluted sample.

DyNA Quant™ 200 Application Notes

	Code Number
Note 1: Protease Assay	80-6236-37
Note 2: b-Galactosidase Assay	80-6236-56
Note 3: b-Glucuronidase Assay	80-6236-75
Note 4: D-b-Hydroxybutyrate (BHB)/NADH-Coupled Assay	80-6236-94
Note 5: Fluorescent Probe Studies of Proteins	80-6237-13
Note 6: Fluorescence Assay for DNA Quantification	80-6240-74
Note 7: Fluorescence Quantification of PCR Products Before and After EasyPrep Purification Using DyNA Quant™ 200	80-6329-09
Note 8: Fluorescence Quantification of Commonly Used Plasmid DNAs Using Calf Thymus DNA as a Calibration Standard	80-6323-58

Note 9:	Fluorescence Quantification of Double-Stranded DNA After cDNA Synthesis	80-6333-46
Note 10:	Fluorescence Quantification of PCR Products Using the DyNA Quant™ 200 Prior to Re-Amplification and direct Sequencing	80-6338-59
Note 11:	Fluorescence Quantification of Single-Stranded M13 DNA	80-6370-89



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