



Fisher Catalog 2004/05

Finntip* Pipetter Tips from Thermo Electron

- Sterile or nonsterile tips
- Available in a wide variety of sizes

Autoclavable, chemical-resistant tips, made of high-quality polypropylene. Smooth, uniform surface prevents liquid retention. Volume range from 0.2µL to 10mL. Available sterile or nonsterile. A range of packaging options is available including racks, bags, bulk, and refill packs. New colorful rack design with color-coded trays (see Color Code in ordering chart below). For use with Thermo Electron Finn timer* Focus, Fisherbrand* Finnpipette, and most other pipetter brands.

Finntip tips come in a full range of standard sizes, from the Finntip 10 (0.2 to 10µL), which is specially designed for pipetting micro-sized drops, to the large-volume Finntip 10mL. The Finntip 200 Extended is an extra-long tapered tip that fits in extremely narrow vessels. The Finntip 1000 Extended is ideal for use with longer tubes and other deep vessels.



Range	Packaging	Color Code	Thermo No.	Cat. No.	Price
Finntip 10					
0.2 to 10µL	Bag of 1000	Pink	9400-310	21-377-209	Pk. of 1000/43.00
0.2 to 10µL	Rack, 10 x 96		9400-300	21-377-208	Pk. of 960/56.00
0.2 to 10µL	Rack, 10 x 96, sterile		9400-303	21-377-210	Pk. of 960/67.00
Finntip 20					
0.2 to 20µL	Bag of 1000	Purple	9400-620	21-377-800	Pk. of 1000/50.00
0.2 to 20µL	Rack, 10 x 384, sterile		9400-613	21-377-801	Cs. of 3840/372.00
0.2 to 20µL	Rack, 10 x 384		9400-610	21-377-802	Cs. of 3840/298.00
Finntip 50					
0.2 to 50µL	Bag of 1000	Turquoise	9400-360	21-377-296	Pk. of 1000/50.00
0.2 to 50µL	Rack, 10 x 384		9400-370	21-377-385	Cs. of 3840/407.00
0.2 to 50µL	Rack, 10 x 384, sterile		9400-373	21-377-386	Cs. of 3840/505.00
Finntip 200 Extended					
5 to 200µL	Box of 400	Orange	9400-100	21-377-43	Pk. of 400/48.00
5 to 200µL	Rack, 10 x 96		9400-130	22-028-146	Cs. of 960/92.00
5 to 200µL	Rack, 10 x 96, sterile		9400-133	21-377-44	Cs. of 960/102.00

Contd. on next page.

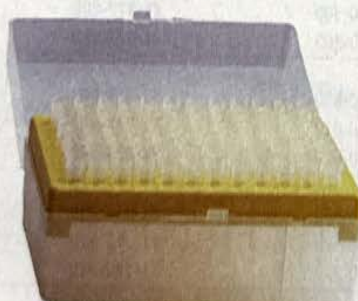
Finntip* Pipetter Tips, Contd.

Range	Packaging	Color Code	Thermo No.	Cat. No.	Price
Finntip 250 Universal					
0.5 to 250µL	Box of 500	Yellow	9400-250	21-377-144	Pk. of 500/23.00
0.5 to 250µL	Bag of 1000	Yellow	9400-230	21-377-45	Pk. of 1000/36.00
0.5 to 250µL	Case of 20,000	Yellow	9400-220	21-377-297	Cs. of 20000/710.00
0.5 to 250µL	Rack, 10 x 96	Yellow	9400-260	21-377-2	Pk. of 960/48.00
0.5 to 250µL	Rack, 10 x 96, sterile	Yellow	9400-263	21-377-126	Cs. of 960/59.00
0.5 to 250µL	Refill pack, 10 x 192	Yellow	9400-265	21-377-240	Cs. of 1920/89.00
Finntip 300					
5 to 300µL	Bag of 1000	Orange	9401-260	21-377-49	Pk. of 1000/40.00
5 to 300µL	Case of 20,000	Orange	9401-240	21-377-298	Cs. of 20000/710.00
5 to 300µL	Rack, 10 x 96	Orange	9401-250	21-377-128	Cs. of 960/54.00
5 to 300µL	Rack, 10 x 96, sterile	Orange	9401-253	21-377-77	Cs. of 960/64.00
5 to 300µL	Refill pack, 10 x 192	Orange	9401-255	21-377-241	Cs. of 1920/95.00
Finntip 1000					
200 to 1000µL	Bag of 1000	Blue	9401-030	21-377-299	Pk. of 1000/40.00
200 to 1000µL	Case of 10,000	Blue	9401-010	21-377-300	Cs. of 10000/359.00
200 to 1000µL	Box of 200	Blue	9401-070	21-377-46	Pk. of 200/10.00
200 to 1000µL	Rack, 10 x 60	Blue	9401-100	21-377-189	Cs. of 600/33.00
200 to 1000µL	Rack, 10 x 60, sterile	Blue	9401-103	21-377-314	Cs. of 600/41.00
200 to 1000µL	Refill pack, 5 x 120	Blue	9401-105	21-377-318	Cs. of 600/29.00
Finntip 1000 Extended					
100 to 1000µL	Bag of 1000	Blue	9401-410	21-377-303	Pk. of 1000/102.00
100 to 1000µL	Rack, 5 x 60	Blue	9401-400	21-377-301	Cs. of 300/50.00
100 to 1000µL	Rack, 5 x 60, sterile	Blue	9401-403	21-377-302	Cs. of 300/61.00
Finntip 5mL					
1 to 5mL	Box of 75	Green	9402-050	21-377-50	Pk. of 75/13.00
1 to 5mL	Bag of 500	Green	9402-030	21-377-304	Pk. of 500/67.00
1 to 5mL	Case of 3000	Green	9402-010	21-377-305	Cs. of 3000/298.00
1 to 5mL	Rack, 5 x 24	Green	9402-060	21-377-165	Cs. of 120/26.00
1 to 5mL	Rack, 5 x 24, sterile	Green	9402-063	21-377-166	Cs. of 120/31.00
Finntip 10mL					
2 to 10mL	Box of 40	Red	9402-150	21-377-146	Pk. of 40/8.00
2 to 10mL	Bag of 100	Red	9402-151	21-377-52	Pk. of 100/16.00
2 to 10mL	Rack, 5 x 24	Red	9402-160	21-377-167	Cs. of 120/31.00
2 to 10mL	Rack, 5 x 24, sterile	Red	9402-163	21-377-168	Cs. of 120/36.00

Finntip* Filtered Pipet Tips from Thermo Electron

- Ideal for amplification applications
- Fit most common 0.2µL to 10mL pipettors
- Multichannel, 16-channel, digital, and extended tips available

Sterile, disposable filters are ideal for PCR† amplification applications and for pipetting radioactive, infectious, and aerosol-emitting samples. Inert and nonsealing polyethylene filter construction ensures effective particle entrapment and eliminates carryover contamination. Seven sterile tips are available to fit most common 0.2µL to 10mL pipettors. (Two extended versions available for applications requiring a longer tip.) Three new configurations available as well: 20µL tip for Finnpipette* Digital 2 to 20µL pipetter; 50µL tip for Finnpipette 16-channel pipetter; and 300µL tip for multichannel pipettors. All tips come vacuum sealed in irradiation-sterilized hinged tip racks. Not autoclavable.



21-377-354

Volume, Length	Packaging	Thermo No.	Cat. No.	Case of
Standard				
0.2–10µL, 1"	10 x 96	94052-000	21-377-354	960/133.00
0.5–10µL, 1 1/4"	10 x 96	94052-100	21-377-169	960/102.00
0.5–100µL, 2"	10 x 96	94052-200	21-377-170	960/102.00
0.5–200µL, 2"	10 x 96	94052-300	21-377-171	960/102.00
200–1000µL, 2 3/4"	10 x 108	94052-400	21-377-172	1080/112.00
1–5mL, 5 3/4"	5 x 24	94052-500	21-377-306	120/50.00
2–10mL, 5 7/8"	5 x 24	94052-600	21-377-357	120/71.00
Extended				
5–200µL, 3"	10 x 96	94052-320	21-377-804	960/195.00
100–1000µL, 4 1/8"	5 x 60	94052-420	21-377-803	300/94.00
Digital (2–20µL)				
0.5–20µL, 1 7/8"	10 x 96	94052-150	21-377-353	960/102.00
0.5–20µL, 1 7/8"	10 x 384	94052-020	21-378-01	3840/774.00
16-channel				
0.2–50µL, 1 7/8"	10 x 384	94052-060	21-377-387	10/773.00
Multichannel				
5–300µL, 2"	10 x 96	94052-350	21-377-307	960/102.00

†The Polymerase Chain Reaction (PCR) process is covered by U.S. Patents 4,683,202; 4,683,195; and 4,965,188 or their foreign counterparts owned by Roche Molecular Systems, Inc. and F. Hoffmann-La Roche Ltd. No license under these patents to use the PCR process is conveyed expressly or by implication to the purchaser by the purchase of this product.

Brinkmann* Eppendorf* epTIPS



- Drop contour design
- Ideal for small-volume pipetting
- Available in four purity levels

NEW Brinkmann's newest line of pipet tips—epTIPS (Eppendorf Totally Integrated Pipetting System)—offers reliable, reproducible, high-precision pipetting for a wide variety of applications. Finely tapered and extended, they are ideal for working with smaller sample volumes. Fine graduations make it easy to visually check volume. New design enables access to a wider variety of tubes and wells. Soft, flexible tip cone provides a better seal to pipetter. Ergonomically optimized cone geometry allows for a perfect fit, ensuring certified performance of all Eppendorf pipettors; can also be used universally with most other leading brands of pipettors.

Manufactured under strict quality standards in an ISO-9001-certified production process. Available as standard or filter tips in four purity levels—Eppendorf Quality (for standard laboratory use), PCR[†] Clean (for all molecular biology applications; DNA-, DNase-, RNase- and PCR inhibitor-free), Eppendorf Biopur* (for the most stringent laboratory requirements; sterile; RNase-, DNA-, ATP- and pyrogen-free), and Sterile (for all tissue culture, and microbiology-related applications).

Packaging options include racks, refill trays (epTIPS Reloads), boxes, bulk packs (in resealable bags), individually wrapped tips, and sets. A set consists of five refill trays and an epTIPS box. The autoclavable, reusable box and refill trays offer simple, contamination-free handling in a space-saving, environmentally friendly package. Sturdy box design provides a secure footprint and is ideal for use with multichannel pipettors. All components of the refills are completely recyclable and can be autoclaved in their packaging and stored for future use. All tip trays are color coded for easy volume identification to the corresponding Eppendorf pipettors.

Eppendorf Quality.

Volume	Packaging	Brinkmann No.	Cat. No.	Pack of
0.1–10µL	Rack, 10 x 96	22 49 190-3	05-403-63	960/71.00
0.1–10µL	Refill Trays, 10 x 96	22 49 150-4	05-403-38	960/65.00
0.1–10µL	Box of 96	22 49 130-0	05-403-21	96/26.00
0.1–10µL	Bulk, 2 bags of 500	22 49 200-4	05-403-54	1000/50.00
0.1–10µL	Set, 5 x 96	22 49 140-7	05-403-30	480/50.00
0.1–20µL	Rack, 10 x 96	22 49 191-1	05-403-64	960/71.00
0.1–20µL	Refill Trays, 10 x 96	22 49 151-2	05-403-39	960/65.00
0.1–20µL	Box of 96	22 49 131-8	05-403-22	96/26.00
0.1–20µL	Bulk, 2 bags of 500	22 49 201-2	05-403-55	1000/50.00
0.1–20µL	Set, 5 x 96	22 49 141-5	05-403-31	480/50.00
0.5–20µL, long	Rack, 10 x 96	22 49 192-0	05-403-65	960/71.00
0.5–20µL, long	Refill Trays, 10 x 96	22 49 152-1	05-403-40	960/65.00
0.5–20µL, long	Box of 96	22 49 132-6	05-403-23	96/26.00
0.5–20µL, long	Bulk, 2 bags of 500	22 49 202-1	05-403-56	1000/50.00
0.5–20µL, long	Set, 5 x 96	22 49 142-3	05-403-32	480/50.00
2–200µL	Rack, 10 x 96	22 49 193-8	05-403-66	960/55.00
2–200µL	Refill Trays, 10 x 96	22 49 153-9	05-403-41	960/50.00
2–200µL	Box of 96	22 49 133-4	05-403-24	96/26.00
2–200µL	Bulk, 2 bags of 500	22 49 203-9	05-403-57	1000/40.00
2–200µL	Set, 5 x 96	22 49 143-1	05-403-33	480/40.00
20–300µL	Rack, 10 x 96	22 49 194-6	05-403-67	960/55.00
20–300µL	Refill Trays, 10 x 96	22 49 154-7	05-403-42	960/50.00
20–300µL	Box of 96	22 49 134-2	05-403-25	96/26.00
20–300µL	Bulk, 2 bags of 500	22 49 204-7	05-403-58	1000/40.00
20–300µL	Set, 5 x 96	22 49 144-0	05-403-34	480/40.00
50–1000µL	Rack, 10 x 96	22 49 195-4	05-403-68	960/60.00
50–1000µL	Refill Trays, 10 x 96	22 49 155-5	05-403-43	960/55.00
50–1000µL	Box of 96	22 49 135-1	05-403-26	96/26.00
50–1000µL	Bulk, 2 bags of 500	22 49 205-5	05-403-59	1000/42.00
50–1000µL	Set, 5 x 96	22 49 145-8	05-403-35	480/42.00
50–1250µL	Rack, 10 x 96	22 49 196-2	05-403-69	960/60.00
50–1250µL	Refill Trays, 10 x 96	22 49 156-3	05-403-44	960/55.00
50–1250µL	Box of 96	22 49 136-9	05-403-27	96/26.00
50–1250µL	Bulk, 2 bags of 500	22 49 206-3	05-403-60	1000/42.00
50–1250µL	Set, 5 x 96	22 49 146-6	05-403-36	480/42.00
500–2500µL	Rack, 10 x 48	22 49 197-1	05-403-70	480/30.00
500–2500µL	Refill Trays, 10 x 48	22 49 157-1	05-403-45	480/55.00
500–2500µL	Box of 48	22 49 137-7	05-403-28	48/26.00
500–2500µL	Bulk, 5 bags of 100	22 49 207-1	05-403-61	500/50.00
500–2500µL	Set, 5 x 48	22 49 147-4	05-403-37	240/50.00
100–5000µL	Rack, 5 x 24	22 49 198-9	05-403-71	120/35.00
100–5000µL	Box of 24	22 49 138-5	05-403-29	24/26.00
100–5000µL	Bulk, 5 bags of 100	22 49 208-0	05-403-62	500/69.00

PCR Clean.

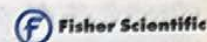
Volume	Packaging	Brinkmann No.	Cat. No.	Pack of
0.1–10µL	Rack, 10 x 96	22 49 180-6	05-403-72	960/89.00
0.1–10µL	Refill Trays, 10 x 96	22 49 170-9	05-403-46	960/75.00
0.1–20µL	Rack, 10 x 96	22 49 181-4	05-403-73	960/89.00
0.1–20µL	Refill Trays, 10 x 96	22 49 171-7	05-403-47	960/75.00
0.5–20µL, long	Rack, 10 x 96	22 49 182-2	05-403-74	960/89.00
0.5–20µL, long	Refill Trays, 10 x 96	22 49 172-5	05-403-48	960/75.00
2–200µL	Rack, 10 x 96	22 49 183-1	05-403-75	960/69.00
2–200µL	Refill Trays, 10 x 96	22 49 173-3	05-403-49	960/59.00
20–300µL	Rack, 10 x 96	22 49 184-9	05-403-76	960/69.00
20–300µL	Refill Trays, 10 x 96	22 49 174-1	05-403-50	960/59.00
50–1000µL	Rack, 10 x 96	22 49 185-7	05-403-77	960/75.00
50–1000µL	Refill Trays, 10 x 96	22 49 175-0	05-403-51	960/65.00
50–1250µL	Rack, 10 x 96	22 49 186-5	05-403-78	960/75.00
50–1250µL	Refill Trays, 10 x 96	22 49 176-8	05-403-52	960/65.00
500–2500µL	Rack, 10 x 48	22 49 187-3	05-403-79	480/38.00
500–2500µL	Refill Trays, 10 x 48	22 49 177-6	05-403-53	480/65.00
100–5000µL	Rack, 5 x 24	22 49 188-1	05-403-80	120/44.00

Contd. on next page.

[†]The Polymerase Chain Reaction (PCR) process is covered by U.S. Patents 4,683,202; 4,683,195; and 4,965,188 or their foreign counterparts owned by Roche Molecular Systems, Inc. and F. Hoffmann-La Roche Ltd. No license under these patents to use the PCR process is conveyed expressly or by implication to the purchaser by the purchase of this product.

Microplate Readers

Fisher Scientific Multiskan* Microplate Readers



- Ranges expandable from 340 through 750nm
- Windows*-based software included

Proven optical system for performance, versatility, value in ELISA, turbidimetric, and agglutination applications. Both models have chopped halogen light, eight-position filter wheel, one- to eight-way fiber-optic delivery system, and eight detectors to read eight wells at once. Scan 96-well plate in five seconds; three shaking speeds for precision. Offer PC-controlled or stand-alone modes, with expandable spectral range using optional accessory optical filters. Include Windows-based Genesis Lite instrument control/data analysis software (with custom blanking, three modes, custom cutoff calculations, nine curve fits) and Transmit software (for data acquisition and transfer to spreadsheet programs).

Multiskan Plus offers two operation modes: Stand-alone with onboard software and push-button control; or PC-controlled. With 405, 450, 620nm filters, onboard software has five blanking schemes and measurement modes, most data analysis options. (See descriptions following.)

Advanced Multiskan MCC/340 model is stand-alone or PC-controllable. Has protein-research-optimized optics; full data analysis options; 340, 405, 414, 450, 492, 540, 620, and 690nm filters; and built-in printer. Onboard software supports five blanking schemes and measurement modes, expanded data analysis options. (See descriptions following.)

Blanking schemes. Onboard software supports five schemes: *single-well reagent blank* uses value from one well for entire plate; *column mean blank* and *row mean blank* use average value from selected column or row for rest of plate; *column blank* gives each row an individual blank value; *row blank* gives each column an individual value. Flexible Genesis Lite software lets you customize blanking schemes.

Measurement modes. Genesis Lite and onboard software include *single-wavelength* and *dual-wavelength modes* (measure absorbance at one or



Multiskan MCC/340

two wavelengths) and *kinetic mode* (measures absorbance rate change over time). Onboard software adds *two-point mode* (measures at two time-points, then subtracts first measurement from second) and *multiwavelength* (lets you select filters for each column to read multiple ELISAs at once).

Data analysis options. Support factor calculation, linear standard, standard line, limit calculation, double limit analysis, range calculation. Genesis Lite adds custom cutoff calculations, nine curve fits: ranged, gray-scale, threshold, point-to-point, linear regression, simple and smoothed cubic spline, four parametric logistic, quadratic regression.

Compact, lightweight units are suitable for any laboratory. Include dust cover, spare fuses, operation manual, two spare lamps, RS-232-C cable, power cord. Net weight: 24¹/₄ lb. (11kg). Measure 12⁵/₈L x 16¹/₂W x 5¹/₂H (32 x 42 x 14cm).

Specifications¹ and Ordering Information for Multiskan Microplate Readers:

Model	Multiskan Plus	Multiskan MCC/340
Spectral Range	400 to 750nm	340 to 750nm
Readout Range	0–3.5Abs	0–3.5Abs
Measurement Range	0–2.5Abs at 405nm	0–2.5Abs at 405nm
Accuracy	±2% or 0.002Abs	±2% or 0.002Abs
Typical Accuracy	(±1% [0–2.0Abs])	(±1% [0–2.0Abs])
Precision	CV <0.5% or 0.007Abs	CV <0.5% or 0.007Abs
Typical Precision	(CV <0.2%)	(CV <0.2%)
Linearity	±2% or 0.007Abs	±2% or 0.007Abs
Typical Linearity	(±1.5%)	(±1.5%)
Filter Arrangement	Filterwheel, 3 filters: 405, 450, 620nm	Filter wheel, 8 filters: 340, 405, 414, 450, 492, 540, 620, 690nm
Onboard Software		
Measurement Modes	Single wavelength, dual wavelength, two-point, kinetic, multiwavelength	Single wavelength, dual wavelength, two-point, kinetic, multiwavelength
Curve Fits	Linear regression, point-to-point	Linear regression, point-to-point, cubic spline
Cutoff Calculations	Fixed	Fixed and floating
Shaking	Onboard	Onboard
Built-in Printer	---	Onboard ²
Interface Connections	Serial, parallel	Serial, parallel
Electrical Requirements	110V 50/60Hz	110V 50/60Hz
Cat. No.	14-386-27	14-386-26
Each	4995.00	5995.00

¹Specifications are set for flat-bottomed microplates; the manufacturer recommends their use for best results.

²For use with onboard software only.



For additional accessories and replacement parts, visit www.fishersci.com.

Bio-Tek* Instruments μ Quant* Universal Microplate Spectrophotometer

- Reads 6-, 12-, 24-, 48-, 96-, 384-well, and Terasaki plates
- Preprogrammed for over 25 common assays

Merges the throughput and convenience of microplate format with the performance of a spectrophotometer. Compatible with multiple plate formats including 384-well for HTS; 6-, 12-, 24-, 48-, and 96-well for routine ELISA and cellular assays; and 60-, 72-, and 96-well Terasaki for specialized applications. The μ Quant Spectrophotometer is suitable for all UV/Vis applications and is tunable in 1nm increments throughout its broad wavelength range.



Features automatic pathlength correction and automated determination of protein and nucleic acid quantitation; spectral scanning lets you find peak absorbance in any microwell. The μ Quant Spectrophotometer is preprogrammed to perform over 25 of the most routine biological assays, including 260/280 ratio, oligo quantitation, protein concentration, and enzyme assays. It offers versatile data reduction onboard in addition to interfacing with Bio-Tek's KC4* and KC_{junior}* software packages. (Contact your Fisher Customer Service Representative for latest upgrades.) Xenon

flash lamp offers high power with excellent reproducibility in low UV applications. CE mark.

Cat. No.

BTMQX200

Each

11,900.00

Specifications

Absorbance Range	0.000 to 4.000Abs
Wavelength Range	200 to 999nm
Accuracy	±1%, 0.010Abs from 0 to 2.000Abs; ±3%, 0.010Abs from 2.000 to 3.000Abs
Linearity	±1% from 0 to 2.000Abs; ±3% from 2.000 to 3.000Abs
Repeatability	±1%, 0.005Abs from 0 to 2.000Abs; ±3%, 0.005Abs from 2.000 to 3.000Abs
Bandpass	2.4nm
Read Methods	Endpoint, spectral scanning, kinetic (via computer control)
Reading Speed	45 sec.
L x W x H	16 x 15 x 7" (41 x 38 x 18cm)
Weight	25 lb. (11.3kg)

Bio-Tek* Elx800* Universal Microplate Readers

- Optional 72/96 Terasaki and 384-well capacity, UV 340nm capability
- Stores up to 75 custom assay definitions and 8 test results

A unique value for use in biotechnology research, food processing, clinical, environmental, and agricultural applications. Readers offer panel assay compatibility and interface with all Bio-Tek software packages.

Onboard Data Analysis. A 2 x 24-character LCD and convenient soft-keys make the Elx800 microplate reader simple to use and program. Extensive curve fitting options include linear, cubic, quadratic, 4-P, log-logit, cubic-spline, and point-to-point. Memory stores 25 standard curves and up to 8 microplate test results. Features auto or manual plate layout for blanks, controls, standards, and samples. Also offers control and assay validation, transformation and formula applications, and cutoff and call criteria.

Onboard Diagnostic Testing. Three different Bio-Tek methods allow the Elx800 to check its own performance and optical specifications and provide either soft or hardcopy results. An optical self-test checks the entire electrical and optical signal pathway; a calibration test plate checks alignment, accuracy, linearity, and repeatability; and a "wet test" may be used to analyze performance.



Interfaces with a variety of software programs including KC4* for Windows* (BT5290512) and KC_{junior}* for Windows (BT5270501), and provides RS-232-C bidirectional serial- and parallel-printer external outputs. CE marked, ETL listed.

Specifications and Ordering Information:

Model	Elx800	Elx800NB	Elx800UV
Spectral Range	400 to 750nm	400 to 750nm	340 to 750nm
Absorbance Range	0.000 to 3.000Abs	0.000 to 3.000Abs	0.000 to 3.000Abs
Accuracy	±1%, ±0.010Abs (from 0 to 2.000Abs @405nm)	±1%, ±0.010Abs (from 0 to 2.000Abs @405nm)	±1%, ±0.010Abs (from 0 to 2.000Abs @405nm)
Resolution	0.001Abs	0.001Abs	0.001Abs
Linearity	±1% (from 0 to 2.000Abs @405nm), ±3% (from 2.000 to 3.000Abs @405nm)	±1% (from 0 to 2.000Abs @405nm), ±3% (from 2.000 to 3.000Abs @405nm)	±1% (from 0 to 2.000Abs @405nm), ±3% (from 2.000 to 3.000Abs @405nm)
Repeatability	±0.5%, ±0.005Abs (from 0 to 2.000Abs @405nm)	±0.5%, ±0.005Abs (from 0 to 2.000Abs @405nm)	±0.5%, ±0.005Abs (from 0 to 2.000Abs @405nm)
Microplate Capability	6-, 12-, 24-, 48-, 96-well	6-, 12-, 24-, 48-, 72/96 Terasaki, 96- and 384-well	6-, 12-, 24-, 48-, 96-well
Filter Arrangement	5-cavity wheel; 405, 450, 490, and 630nm supplied	5-cavity wheel; 405, 450, 490, and 630nm supplied	5-cavity wheel; 340, 405, 450, 490, and 630nm supplied
Scanning Speed	96 wells in 30 seconds	96 wells in 30 seconds	96 wells in 30 seconds
Electrical Requirements	100-240VAC 50/60Hz	100-240VAC 50/60Hz	100-240VAC 50/60Hz
Cat. No.	BTELX800	BTELX800NB	BTELX800UV
Each	5000.00	5500.00	5500.00

Bio-Tek® FLx800* Microplate Fluorescence Readers

Automated top/bottom probe switching

Read 6-, 12-, 24-, 48-, 96-, and 384-well plates, including Terasaki trays and PCR tubes. Choose from models with top, bottom, or top and bottom probes. Store 55 programmable protocols, up to 75 custom programs, and eight microplate assay results onboard. Fiber-optic probes provide excellent sensitivity over a wide range. Onboard data analysis or PC control with optional Bio-Tek KCjunior* for Windows* software.

Two-line, 24-character LCD and menu-driven software simplify operation and programming. Onboard diagnostic testing utilizes three methods to check instrument performance and optical specifications, and provides either soft or hardcopy results. An optical self-test checks the entire electrical and optical signal pathway; a universal test plate checks alignment, accuracy, linearity and repeatability; and a "wet test" may be used to analyze performance.

Seven models offer a choice of configurations for reading multiple plate types. Model FLx800TBEP reads PCR tubes as well as microplates. Unit with 3.0mm top probe is ideal for reading solid black plates; unit with 5.0mm bottom probe for reading covered plates. Units with top and bottom probes offer the most flexibility and feature automated probe switching for added convenience. Extended-range photomultiplier tube (PMT) on Models FLx800TBE, FLx800TBIE, and FLx800TBEP extend emission range to 800nm. Models FLx800TBI and FLx800TBIE provide shaking and incubation to 50°C for temperature-sensitive assays. All units feature convenient front-panel access to accessories. Supplied with filters (see specifications); filters can be exchanged for other filters at time of purchase, dust cover, serial and printer cables, power cord, and owner's manual. CE and ETL marked. Conform to UL 3101-1. Certified to CAN/CSA C22.2 No. 1010.1-92 and EN61010-1, including amendments 1 and 2.

Model	Features	Cat. No.	Each
FLx800T	Top probe	BT-FLx800T	11,500.00
FLx800B	Bottom probe	BT-FLx800B	11,500.00
FLx800TB	Top & bottom probes	BT-FLx800TB	13,000.00
FLx800TBE	Top & bottom probes, extended range PMT	BT-FLx800TBE	13,500.00
FLx800TBEP	Top & bottom probes, extended range PMT, 2 excitation & 2 emission filters, reads microplates and PCR tubes.	BT-FLx800TBEP	14,000.00
FLx800TBI	Top & bottom probes, incubation & shaking	BT-FLx800TBPI	14,000.00
FLx800TBIE	Top & bottom probes, extended range PMT, incubation & shaking	FLx800TBIE	14,500.00



Specifications

Excitation Range	300–650nm
Emission Range	340–650nm (340–800nm for BT-FLx800TBE, FLx800TBIE, and BT-FLx800TBEP)
Dynamic Range	5 decades (0–99,999)
Sensitivity (Top)	160pg/mL methylumbelliferone (0.13 picomoles/well)
Sensitivity (Bottom)	10pg/mL sodium fluorescein (3.9 femtomoles/well)
Microplate Capability	6-, 12-, 24-, 48-, 96- and 384-well, PCR tubes
Filter Arrangement	4-position wheel; 485 and 360 excitation filters, 528 and 460 emission filters supplied
Detection Method	Fluorescence, luminescence
Light Source	Quartz halogen, 1000-hour life
Display	Two-line, 24-character LCD
Program Capacity	55 programmable protocols (up to 75 custom programs) and 8 assay results
Curve Fits	Linear regression, polynomial, point to point, cubic spline, and 4-parameter logistic curve fits
Interface	RS-232-C serial interface; parallel printer interface
Connections	
Dimensions	16L x 15 1/2W x 9"H (41 x 39 x 23cm)
Electrical Requirements	100-240VAC 50/60Hz, 24V external transformer

The Polymerase Chain Reaction (PCR) process is covered by U.S. Patents 4,683,202; 4,683,195; and 4,965,188 or their foreign counterparts owned by Roche Molecular Systems, Inc. and F. Hoffmann-La Roche Ltd.

Bio-Tek® Precision 2000* Automated Microplate Pipetting System

Innovative replacement for manual pipetting—ideal for routine liquid deliveries such as reagent addition, plate replication, serial dilutions, sample transfer, and mixing within a well. Features a customizable multistation capacity deck. Available with a manifold for continuous reagent dispensing. For details, see p. 1838.



► See also:
Fluorometers, pp. 590-593.

Bio-Tek* Synergy* HT Multidetetection Microplate Reader

- Reads 6- to 384-well plate formats, including PCR trays and Terasaki plates
- Adjusts probe height automatically
- Includes KC4* software for custom reporting

NEW

Dual high-performance optics design integrates

fluorescence, optional time-resolved fluorescence, absorbance, and luminescence performance into a multidetection system suited for high-throughput or drug discovery applications with 6- to 384-well microplates. Features automatic top and bottom epifluorescence read modes, optimized for both sensitive homogeneous and cell-based assays, user-controlled shaking, and 4-Zone* temperature incubation to 50°C (122°F).

Maximum sensitivity in both fluorescence and absorbance modes.

Fluorescence determinations performed using a tungsten halogen lamp and PMT detector. The large amount of constant-intensity light produced by the lamp increases sensitivity and repeatability. Interference filters prevent light leakage from excitation to emission wavelengths, increasing wavelength specificity—ideal for compounds with small Stoke's shifts. Plus, filters with different bandpasses can be used to tailor fluorescence measurements. For absorbance and time-resolved fluorescence readings, a xenon flash lamp and scanning monochromator measure both UV- and visible-light absorbance. The monochromator permits wavelength selection from 200 to 999nm in 1nm increments.

Cell friendly with complete well scanning. Reads assays in situ and is optically structured for maximum sensitivity from cellular assays. Bottom epifluorescence reads covered plates to retain sterility. Scans entire well to provide accurate quantification of cellular contents on 6-, 12-, 24-, or 48-well plates. User-specified optical matrix provides data appropriate to well size.

Compatible with automated systems. Compact footprint, robot-accessible carrier design, and easy hardware and software interface support use with automated systems. Reader control is via Bio-Tek's KC4 v3.1 with PowerReports* data collection and analysis software. KC4 v3.1 software features powerful data reduction and custom reporting capabilities



and 25 sample protocols. Optional KC4 Signature software (BT5290510) meets 21CFR Part 11 requirements for electronic signatures and audit-trail documentation, such as multilevel user password protection and protocol/data audit trails and is available at an additional charge.

Ordering Information: Includes four default excitation filters (360/40, 485/20, 530/25, 590/20) and four default emission filters (460/40, 528/20, 590/35, 645/40). **Note:** Default wavelength filters other than those listed can be specified at ordering. Also comes with KC4 v3.1 with PowerReports software, serial cable (null modem, 9- to 25-pin female), and an operator's manual. CE marked and ETL listed. Conforms to regulatory requirements for in vitro diagnostic use. Dimensions: 16L x 15W x 10"H (41 x 38 x 25cm). Electrical requirements: 100-240V 50/60Hz.

Cat. No.

BT-SIAFR

Each

25,000.00

Specifications

Excitation Range	300–650nm; 200–999nm (with time-resolved fluorescence)
Emission Range	350–800nm
Dynamic Range	0–99,999 (fluorescence); 0–4.0 OD (absorbance)
Absorbance Range	200–999nm (1nm increments)
Accuracy	±1%
Linearity	<1% from 0–3.0 OD
Repeatability	<0.5%
Bandpass	2.4nm (absorbance)
Sensitivity	5pg/mL SF
Filter Wheel	4-position wheel with four excitation filters (360/40, 485/20, 530/25, 590/20) and four emission filters (460/40, 528/20, 590/35, 645/40)
Detection Method	Fluorescence, time-resolved fluorescence (optional), absorbance, luminescence
Read Methods	Endpoint, kinetic, well-area scanning
Light Source	Tungsten halogen and xenon lights
Interface Connections	Bidirectional RS-232

Zylux Orion/MPL3 Microplate Luminometer

- High sensitivity, excellent linear range
- Autoinjection capability
- Easy-to-use software

Provides flexibility and power sufficient for all bio- or chemiluminescent applications. Compact photon counter combines low-noise photomultipliers and advanced rapid electronic circuitry to provide excellent sensitivity and linear range; no internal calibration is required. Virtually all stray light is eliminated via an optimized mirror system and high-precision optomechanical assemblies treated with a special light-absorbing surface.

Available with one or two automatic reagent injectors as standard. Accepts 96- and 384-well microplates or 96-well microplates only. Measures virtually all commercially available microplates; sample carrier with plate alignment mechanism corrects any variances of outer dimensions.

Instrument control and data analysis is provided by the included Simplicity PC software for Microsoft* Windows*. Any combination of wells: all, columns, rows, rectangles, or individual can be selected for measurement. Measuring time can be set for 0.1 sec. upwards; results are reported in relative light units per second (RLU/sec.). With standard Simplicity Basic Module, data is presented as a spreadsheet and may be exported to Microsoft Excel* with a single mouseclick.



Specifications

Type	96- and 384-well microplates and strip plates
Photon Counter	300–600nm
Spectral Range	
Sensitivity	20 attomole ATP
Dynamic Range	6 decades
Injector Design	Microprocessor-controlled syringe-type pumps
Injection Volume	10–150µL per pump
Injection Ports	2 at measurement position and 2 in the neighboring well position
Measuring Time	0.1 to 100 sec. per well
Interfaces	RS-232-C (PC); CAN-bus (injection unit)
Minimum PC Software Requirements	IBM-compatible PC; serial port; Windows 95, 98, ME, XP NT 4.0 or 2000; minimum 8MB RAM, 16 colors
L x W x H	15¾ x 21½ x 8" (40 x 55 x 20cm)
Electrical Requirements	115V 60Hz

Description

Cat. No.

Each

For 96-well microplates only†

With one injector

12-200-15

18,009.06

With two injectors

12-200-16

19,973.69

†For units that accept 96- and 384-well microplates, visit www.fishersci.com.

Bio-Tek* PowerWave* HT Microplate Spectrophotometer

- Reads 96- and 384-well microplates and BioCell* vessels
- Rugged design for continuous operation
- Automatic pathlength correction to 1cm
- Runs wavelengths from 200 to 999nm without filters

NEW Quickly and accurately reads 96- and 384-well microplates for high-throughput applications. Also accepts 1cm BioCell vessels for standard spectrophotometer uses when used with optional adapter (BT-7270512). Suitable for any UV/Vis application between 200 to 999nm including direct DNA/RNA quantitation, and DNA purity. Designed to run 24 hours a day, 7 days a week, the system can be used as a stand-alone or in an automated system. Features monochromator with xenon flash lamp, 5nm bandpass, and user-programmable shake timing and frequency. Available with 4-Zone* natural convection incubation to 50°C (122°F) for superior temperature stability.

Flexibility for multiple applications. Select wavelengths in 1nm increments—without the use of filters. Read endpoint, kinetic, spectral scans, and well scans in three read modes (normal, rapid, and sweep). Quickly perform spectral scans and analysis of multiple wells with overlay scans for fast comparisons.

Proven optical performance. With powerful xenon flash lamp and low UV to near IR range, the monochromator-based system allows automatic pathlength correction to 1cm values for high throughput nucleic acid analysis.

Compatible with automated systems. Compact footprint, robot-accessible carrier, and user-friendly hardware and software interface allow easy integration into automated systems. Spectrophotometer control is via powerful KC4* software. Includes PowerReports* feature with 25 sample protocols for data collection and analysis. Works interactively with Microsoft Word* or Excel* software to generate customized reports.

Ordering Information. Comes with KC4 with PowerReports software, serial cable (null modem, 9- to 25-pin female), bidirectional RS-232 interface, and operator's manual. CE and ETL listed. Conforms to regulatory requirements for in vitro diagnostic use. Dimensions: 16L x 8 1/2W x 8 1/2"H (41 x 22 x 22cm). Weight: 24 lb. (11kg). Electrical requirements: 100–240VAC 50/60Hz.

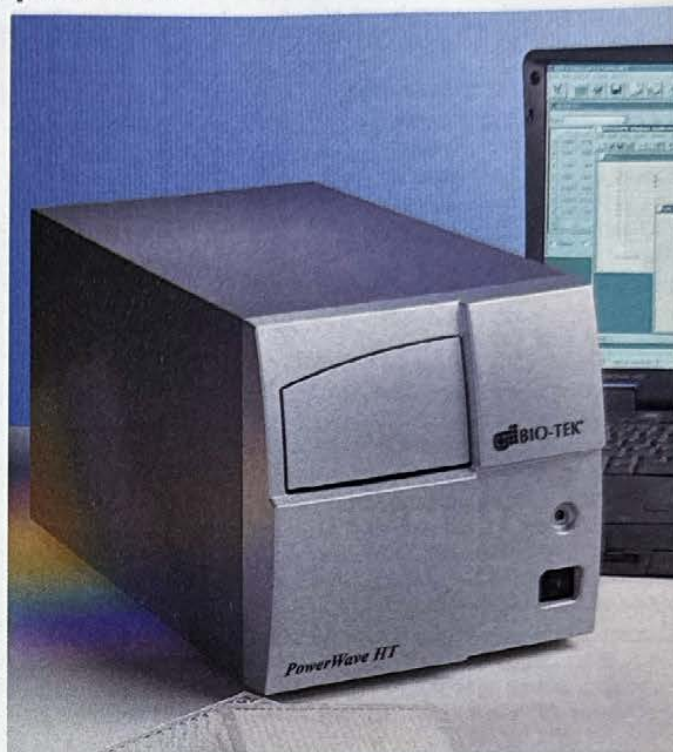
Description	Cat. No.	Each
PowerWave HT	BT-RPRW	23,000.00
PowerWave HT with Incubation	BT-RPRWI	23,000.00

Accessories. For use with PowerWave* HT, PowerWave XS, and µQuant* Microplate Spectrophotometers. Adapter accepts up to eight BioCell vessels.

Description	Cat. No.	Each
BioCell Vessel	BT-7272051	125.00
BioCell Plate Adapter	BT-7270512	85.00

► See also:

Corning* UV-Plate, p. 1855;
BD Falcon* 96-Well UV-Transparent Microplate, p. 1855;
BD Falcon 384-Well UV-Transparent Microplate, p. 1858.

**Specifications**

Absorbance Range	0–4.0Abs
Wavelength Range	200–999nm
Accuracy	<1% <2% at 3.0 OD
Linearity	±1% from 0–3.0 OD
Repeatability	<0.5% <2% at 3.0 OD
Bandpass	5nm
Read Methods	Endpoint, kinetic, spectral and linear scanning
Read Speeds	Normal: 96 wells in 11 seconds; 384 wells in 23 seconds Rapid: Increased speed with the best performance from 0 to 2.0 OD Sweep: "On the fly" measurement, for fastest screening
Light Source	Xenon flash lamp
Interface Connections	Bidirectional RS-232

**Pierce Protein Assay Kits**

Choose from a variety of kits—including the BCA Protein Assay Kit and Modified Lowry Protein Assay Kit—that utilize colorimetric assays for the quantitation of proteins. These kits can be used to perform assays in microplates and results can be read in a microplate reader. For details, see p. 1934.

Microplate Washers

Fisher Scientific Wellwash 4 Mk2 Automatic Microplate Washer

- Complete user programmability
- Four "smart cards" for routine protocols

Provides superior microplate washing results, flexibility, and ease of use. Compatible with all styles of 96-well plates.¹

User-programmable card lets you easily set volume, wash cycles, wash type, soak time, and mode of dispensing in as little as 10 seconds; allows up to three no-soak washes after processing program. Or, select one of the four standard program cards with routine protocols included.

Unique coaxial wash-head design ensures trouble-free washing with low residual volumes. Large-diameter outer aspiration tubes improve liquid removal from the walls and well periphery. Inner dispense needles avoid microwell contact and provide a clean profile to reduce carryover. Valuable "top washing" capability allows removal of proteinaceous material; vortex effect increases effective dilution and removal of floating conjugate.

Inexpensive, plastic 8- and 12-way wash heads are interchangeable. Wash/Waste bottle caps release quickly for easy buffer changes. Unit is completely sealed against spills; all moving parts of the magnetic carrier mechanism are below the sealed plate track. Inline liquid trap helps pre-



vent washing solvents from reaching the pump. Shuts off automatically if a leak is detected or if not in use for more than 30 seconds.

Specifications and Ordering Information: Complete with 8- and 12-way wash heads, two wash/waste bottles, four standard program cards, one programmable card, one replacement tubing pack, an operation manual, and spare fuses. CSA and BSA approved.

Model	4 Mk2
Wash/Waste Bottle Capacity	2L each
Priming Consumption	15 to 20mL
Operating Pressure (Self limiting)	6.5psi
Precision	<5% CV
Residual Volume	<5mL
User-programmable Card	
Volume	0 to 750µL (50µL increments)
Washes	1 to 16
Soak Time	0 to 10 min. (1/2 min. increments)
Pause	0 to 60 sec.
Weight	22 ¹ / ₁₆ lb. (10kg)
Dimensions	28L x 8 ⁵ / ₈ W x 6 ¹ / ₄ "H (71 x 22 x 16cm)
Power Consumption	300w
Cat. No.	14-386-29
Each	4800.00

¹Manufacturer recommends use with flat-bottom microplates for best results.

Bio-Tek* ELx50* Automatic Strip Washer

- Washes single strips or full plates
- Self-contained and programmable
- Syringe-drive fluid delivery system for precise control
- Choice of 8-, 12-, or 16-channel manifold models



Suitable for EIA, fluorescence, chemiluminescence, RIA, DNA probe, and cellular assays. Feature a micro-controlled, syringe-drive, positive-displacement pump for fluid delivery and variable control of aspiration rates. Intuitive, menu-driven software lets you easily automate washing protocols, even those specialized for stringent research applications.

Efficient washing ensures low background absorbance and small residual volumes. High volumes of wash buffer are dispensed vigorously at the well bottom for rapid reagent dilution. Residual fluid is removed by cross-wise aspiration in two programmable well positions. Programmable aspiration rates reduce carryover to provide the ultimate in washing efficiency.

Easy-to-use. Simply select the program and enter the number of strips. Preprogrammed maintenance protocols are available at the touch of a button, and automatic buffer switching is optional on all models. Serial interface permits continuous product updating as new features or assay protocol requirements arise. Safety features include aerosol cover, built-in decontamination routine, and isolation of electronics from fluids.

Description	Cat. No.	Each
8-Well Strip Washer	BT ELX508	4700.00
8-Well Strip Washer with Valvest	BT ELX508V	5600.00
12-Well Strip Washer	BT ELX5012	4700.00
12-Well Strip Washer with Valvest	BT ELX5012V	5600.00
16-Well Strip Washer	BT ELX5016	5500.00
16-Well Strip Washer with Valvest	BT ELX5016V	6400.00

[†]Automatic buffer-switching option.

Choice of 8, 12, or 16 channels. All models handle strips and 96-well flat-bottom microplates; 8- and 12-channel models also handle round or V-bottom well shapes. 16-channel models accommodate 384-well and 96-well flat-bottom microplates. All come with appropriate manifold. The 16-channel models are equipped with patented Dual-Action* 16-channel manifold, which provides independent control of dispense and aspiration manifolds for overflow washing and overflow protection in both 96- and 384-well formats. In 96-well formats, the 16-channel manifold provides two sets of dispense and aspiration tubes per well, guaranteeing low residuals. (An 8-channel accessory manifold is available to let you use round- and V-bottom plates with 16-channel models. Contact your Fisher Customer Service Representative for details.) Available with or without valves; models with valves provide automatic buffer switching.

All models come complete with QC report and Performance Verification Data Sheet, aerosol cover, built-in pumps, and accessory package including bottles, tubing, and maintenance kit. CE marked, ETL listed. For in vitro diagnostic use.

Specifications	
Manifold Type	8-, 12-, or 16-channel
Residual Volume	<4µL/well
Variable Fluid Flowrates	150 to 1000µL/well/sec.
Soak Times	1 to 600 sec.
Dispense Volumes	25 to 3000µL/well
Wash Cycles	1 to 10
Display	2 x 24-character LCD
Software	Field upgradable
User-programmable protocols	75
Functions	Wash, prime, dispense, aspirate, rinse, maintenance routines
Interface	RS-232-C
Net Weight	20 lb. (8.9kg)
Dimensions (L x W x H)	16 x 14 x 6 ¹ / ₂ " (40 x 35 x 16.25cm)
Electrical Requirements	100-250VAC 50/60Hz

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