

PHOTOMETERS

Brand/Model	Wavelength (nm)	13 mm Vacu-Vials	16 mm COD vials <small>(performance confirmed on ones we have used)</small>	1 inch MDL+	Adaptor / Comments
Hach/ DR 890 <small>Obsolete</small>	Auto select	No	Yes (COD: LR, HR, HR+) Use Hach Method 8000	No	Includes 16 mm COD/TNT adapter, supplied w/1" sample cells; only preprogrammed calibrations available
Hach/DR 900					Use 16 mm adapter Hach Part No. 4479900
Hach/DR 2000 <small>Obsolete</small>	400-900	Yes	Yes (COD: LR, HR, HR+)	No	16 mm adapter Hach Part No. 4479900 13 mm Test Tube adapter Hach Part No. 44798-00 (discontinued)
Hach/DR 2010 <small>Obsolete</small>	400-900	Yes	Yes (COD: LR, HR, HR+)	AccuVac adapter incl.	16 mm adapter Hach Part No. 4479900 13 mm Test Tube adapter Hach Part No. 44798-00 (discontinued)
Hach/DR 2400 <small>Obsolete</small>	400-880	No	Yes (COD: LR, HR, HR+)	AccuVac	16 mm Hach Part No. 5945700
Hach/DR 2500 <small>Obsolete unreliable for some parameters</small>	365-880	*Yes	*Yes (COD: LR, HR, HR+), but not recommended	*AccuVac (to 25.4 mm), not recommended	Built-in adaptor for all round sample cells. *Note: We do not recommend this instrument for use with COD and Sulfate.
Hach/DR 2700	400-900	Yes	Yes (COD: LR, HR, HR+)	Yes	Includes adapter for 1" round/AccuVac cells
Hach/DR 2800 <small>Not listed-USA</small>	340-900	Yes	Yes/No (COD: LR, HR, HR+) [European model labeled Hach Lange not compatible - TNTplus vials only]	Yes	USA model – none required – cell compartment #1 for 13 mm or 16 mm round vials.
Hach/DR 3000 <small>Obsolete</small>	340-1000	Yes	Yes (COD: LR, HR, HR+)	AccuVac adapter incl.	16 mm adapter Hach Part No. 4479900 13 mm Test Tube adapter Hach Part No. 44798-00 (discontinued)
Hach/DR 3800 <small>Obsolete</small>	320-1100	Yes	Yes (COD: LR, HR, HR+)	Yes	2 compartments – one for 13/16 mm, one for adapters—1" round adapter ("C") comes with spec (LZV584)
Hach/DR 3900	320-1100	Yes	Yes (COD: LR, HR, HR+)	Yes	2 compartments – one for 13/16 mm, one for adapters—1" round adapter ("A") comes with spec (LZV846) Has bar code reader, so user may have to program or use ABS.
Hach/DR 4000 <small>Obsolete</small>	190-1100	Yes	Yes (COD: LR, HR, HR+)	Yes	16 mm adapter Hach Part No. 4818900; 1" round or square adapter included CHEMetrics uses Hach's 1 cm square cuvette holder (Hach No. 4858400). This instrument pre-dates TNT-plus (13 mm) vials, so there is no 13 mm adapter.
Hach/DR 5000 <small>Obsolete?</small>	190-1100	Yes	Yes (COD: LR, HR, HR+)	Yes	Includes multi-cell holder that has a 1" round cell (and 10, 50mm). Has bar code reader.
Hach/DR 6000	190-1100	Yes	Yes (COD: LR, HR, HR+)	Yes	Automatic TNT plus – can accept 13 mm, 16 mm, 1 inch
Bausch & Lomb Spec 20	375-650	Yes	Yes (COD: LR, HR, HR+)	Yes, w/ adapter	None required for 13mm or 16mm. 1" adapter is part #332930
Bausch & Lomb Spec 21	340-1000	Yes	Yes (COD: LR, HR, HR+)	No	None required
Macherey Nagel Nanoclor UV/Vis, Vis, 500D	various	Maybe	Maybe	No	User must generate own curve. Instrument has bar code reader, but programmable by user or use ABS. Mentions 14 and 16 mm tubes, not 13 mm.
Merck/NOVA 30 & 60	LED	No	Probably not-16 mm flat bottom	No	N/A
Merck Pharo 100 <small>(WTW 6100)</small>	320-1100	No	Yes (COD: LR, HR, HR+)	No	COD experimentally confirmed Apr 2013 on WTW
Thermo Sci/Genesys 20	325-1100	Yes	Yes (COD: LR, HR, HR+)	Yes	16 mm COD Vial Cell Holder Fisher No. 4014-000; 1" Test Tube Holder Fisher No. 4015-000
Thermo Scientific Orion AquaMate 7000 Orion AquaMate 8000	325-1100 190-1000	Yes	Yes (COD: LR, HR, HR+)	No	Comes with adapter for 13/16 mm. Maximum round vial size is 24 mm. Hach instruments.
WTW Photolab 6100 [6600]	320-1100 [190-1100]	*No—only with adapter	*Yes (COD: LR, HR, HR+)	No	6100: *April 2013 evaluation: Accurate results obtained for COD; periodic inaccurate results obtained with Vacu-vials due to instrument "autocheck". PR made 13 mm adapter for this instrument for Precision Labs. Can accept up to 50 mm rectangular cuvettes.

COD: LR=0-150 ppm (420 nm), HR=0-1500 (620 nm), HR+ = 0-15,000 ppm (620 nm)

Hach TNT plus = 13 mm; Hach AccuVac = 25 mm (0.98 inch)

DIGESTION BLOCKS

Brand/Model	16 mm vials
Hach/DRB200	Yes
Macherey-Nagel/Vario 3	Yes (2x12 places)
Dr. Lange/HT 200S	No—13 mm flat bottom