

TNTplus™ Vial Chemistries



Hach TNTplus™ Vial Chemistries offer quality you expect from Hach that's even easier to use and more accurate than ever. For a complete list of available parameters and USEPA status, please see page 2.

Features and Benefits

Reduce Errors with Bar-coded Vials

A unique barcode label on each Hach TNTplus Vial Chemistry is automatically read by the spectrophotometer when used with Hach's DR 5000™ UV-VIS Spectrophotometer or DR 2800™ Portable Spectrophotometer to identify the appropriate method and take the measurement. While increasing ease-of-use and speed of analysis, errors are significantly reduced.

No Reagent Blank Necessary

The high quality of TNTplus vials, tight reagent production controls, 10-fold absorbance readings averaged for results determination, instrument calibration verification, and high instrument stability all combine to eliminate the need to run reagent blanks—saving you time and money!

Innovative Vial and Reagent Delivery

TNTplus vials use innovative DosiCaps that are easier to use than powder pillows or liquid reagents. There's no risk of spillage, no safety risk, or risk of contamination with DosiCaps because the reagents are completely contained within the vial cap. The glassware used assures the best precision and the vials have a flat bottom so they can stand on their own.

Even the Package is Useful

Packages of TNTplus vials are color-coded for fast and easy parameter and range recognition for the exact test you need. Step-by-step illustrated test methods are printed on the box for quick reference. Instructions in simple multiple language formats, included in each carton, increase the use of a diverse labor force.

Approved Methods for EPA Compliance Monitoring

Hach TNTplus Vial Chemistries for COD, Chromium VI, and ortho- and total Phosphate may be used for direct compliance monitoring purposes. These methods have either obtained an EPA Approval or Acceptance letter. Hach TNTplus Vial Chemistries for Ammonia (mercury-free) and Nitrite are packaged as Equivalent to EPA Methods 350.1 and 351.1 (Ammonia) and EPA Method 354.1 (Nitrite). With any method used for compliance reporting, always consult your local regulatory authority.

DW = drinking water WW = wastewater municipal PW = pure water / power
IW = industrial water E = environmental C = collections FB = food and beverage



Be Right™

WW

IW

Specifications*

Parameter	Color Code	Range Name	Range (mg/L)	Color Code	USEPA Status	Chemical Method	Shelf Life (months)	Storage Temp (°C)
Aluminum	Magenta		0.02 to 0.5	Green		Chromazurol S	18	15 to 25
Ammonia	Green	ULR	0.015 to 2 as NH ₃ -N	Green	Equivalent	Salicylate	18	2 to 8
		LR	1 to 12 as NH ₃ -N	Blue	Equivalent	Salicylate	18	2 to 8
		HR	2 to 47 as NH ₃ -N	Red	Equivalent	Salicylate	18	2 to 8
Cadmium	Magenta		0.02 to 0.3	Black		Acid Persulfate Digestion (CADION)	12	2 to 8
COD	Red	ULR	1 to 60	Green		Dichromate	12	15 to 25
		LR	3 to 150	Blue	Approved	Dichromate	60	15 to 25
		HR	20 to 1500	Red	Approved	Dichromate	60	15 to 25
		UHR	250 to 15000	Black		Dichromate	30	15 to 25
Chromium (III and VI)	Magenta		0.03 to 1	Green	Cr ⁺⁶ Accepted	(Acid Persulfate Digestion), DPC	12	2 to 8
Lead	Magenta		0.1 to 2	Green		Acid Persulfate Digestion (PAR)	12	15 to 25
Metal Prep Set	Violet		for Pb, Cd, Ni digestion			Acid Persulfate Digestion	36	15 to 25
Nickel	Magenta		0,1 to 6 mg/L	Red		Acid Persulfate Digestion (Dimethylglyoxime)	24	15 to 25
Nitrate	Light Green	LR	0.23 to 13.5 as NO ₃ -N	Green		Dimethylphenole (DMP)	24	15 to 25
		HR	5 to 35 as NO ₃ -N	Red		Dimethylphenole (DMP)	24	15 to 25
Nitrite	Violet	LR	0.015 to 0.6 as NO ₂ -N	Blue	Equivalent	Diazotization	24	2 to 8
Nitrogen, Total	Magenta	LR	1 to 16	Green		Persulfate Digestion, DMP	18	15 to 25
		HR	5 to 40	Blue		Persulfate Digestion, DMP	18	15 to 25
		UHR	20 to 100	Red		Persulfate Digestion, DMP	18	15 to 25
Phosphate, Total and Ortho	Blue	LR	0.05 to 1.5 as PO ₄ -P	Green	Approved	Acid Persulfate Digestion, Molybdate	24	15 to 25
		HR	0.5 to 5 as PO ₄ -P	Blue	Approved	Acid Persulfate Digestion, Molybdate	24	15 to 25
		UHR	2 to 20 as PO ₄ -P	Red	Approved	Acid Persulfate Digestion, Molybdate	24	15 to 25
		Ortho only	1.6 to 30 as PO ₄ -P	Red		Molybdovanadate	36	15 to 25

*Specifications subject to change without notice.

Ordering Information

Product Number	Parameter	Range (mg/L)	# per package
TNT848	Aluminum	0.02 to 0.5	24
TNT830	Ammonia	0.015 to 2	25
TNT831	Ammonia	1 to 12	25
TNT832	Ammonia	2 to 47	25
TNT852	Cadmium	0.02 to 0.3	25
TNT854	Chromium (III and VI)	0.03 to 1	25
TNT820	COD	1 to 60	24
TNT82006	COD	1 to 60	144
TNT821	COD	3 to 150	25
TNT82106	COD	3 to 150	150
TNT822	COD	20 to 1500	25
TNT82206	COD	20 to 1500	150
TNT823	COD	250 to 15,000	25
TNT82306	COD	250 to 15,000	150
TNT850	Lead	0.1 to 2	25
TNT856	Nickel	0.1 to 6	25
TNT835	Nitrate	0.23 to 13.5	25
TNT836	Nitrate	5 to 35	25
TNT839	Nitrite	0.015 to 0.6	25
TNT826	Nitrogen, total	1 to 16	25
TNT827	Nitrogen, total	5 to 40	25
TNT828	Nitrogen, total	20 to 100	25
TNT846	Phosphorus, reactive (ortho)	1.6 to 30	25
TNT843	Phosphorus, total & reactive (ortho)	0.05 to 1.5	25
TNT844	Phosphorus, total & reactive (ortho)	0.5 to 5	25
TNT845	Phosphorus, total & reactive (ortho)	2 to 20	25

Accessories

TNT890	Metal Prep Set (used for Pb, Cd, & Ni digestion), 50 digestions
TNT892	Calcium Separation Set (used for Cadmium test), 24 separations
TNT919	Sample Blank Vials, 5 qty.
BBP078	Single Channel Pipet, 0.2 to 1.0 mL
BBP065	Single Channel Pipet, 1.0 to 5.0 mL
BBP079	Pipet Tips for BBP078, 100/pk
BBP068	Pipet Tips for BBP065, 75/pk
LZP320	One each of BBP078 and BBP065 and one box tips for each

DRB 200 Dry Thermostat Reactor

DRB200-01	9 vials x 13 mm + 2 vials x 20 mm (mono block), 115Vac
DRB200-02	21 vials x 13 mm + 4 vials x 20 mm (dual block), 115Vac
DRB200-03	15 vials x 13 mm + 15 vials x 13 mm (dual block), 115Vac
DRB200-04	12 vials x 13 mm + 8 vials x 20 mm (dual block), 115Vac
DRB200-05	9 vials x 13 mm + 2 vials x 20 mm (mono block), 230 Vac
DRB200-06	21 vials x 13 mm + 4 vials x 20 mm (dual block), 230 Vac
DRB200-07	15 vials x 13 mm + 15 vials x 13 mm (dual block), 230 Vac
DRB200-08	12 vials x 13 mm + 8 vials x 20 mm (dual block), 230 Vac

DRB 200 Reactor Adapters

(for 16 mm vial wells of existing reactors to adapt to 13 mm TNTplus™ vials)

28958-05 Reactor Adapter, 16 to 13 mm, 5/pk

To complete your chemical analysis, choose from these instruments...

DR 2800™ Portable Spectrophotometer

(see Lit. #2489)

The Hach DR 2800 Portable Spectrophotometer offers automatic method detection when used with TNTplus™ reagent vials. It also has an intuitive touch screen user interface and accommodates a wide range of pre-programmed water analysis methods. The small footprint is an advantage whenever you need a reliable portable analytical tool.

DR 5000™ UV-Vis Laboratory Spectrophotometer

(see Lit. #2479)

The Hach DR 5000 UV-Vis Laboratory Spectrophotometer offers a broad range of water analysis methods with more than 240 tests. Automatic method detection capability reduces test time and potential errors. The intuitive touch screen interface makes this instrument easy to use.



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In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time.

At Hach, it's about learning from our customers and providing the right answers. It's more than ensuring the quality of water—it's about ensuring the quality of life. When it comes to the things that touch our lives...

Keep it pure.

Make it simple.

Be right.

For current price information, technical support, and ordering assistance, contact the Hach office or distributor serving your area.

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Be Right™