

Reagents

Hach® Equivalent Reagents



- Powder Packs • Tube Tests • DPD Dispenser •
- Online Chlorine Analyzer Reagents • DT Cartridges •

Hach® Equivalent Reagents

The following Orbeco-Hellige reagents have been specifically formulated and manufactured by Orbeco-Hellige for use in our test kits, colorimeters and spectrophotometers. These reagents are also suitable for use in Hach® test kits, colorimeters and spectrophotometers, and have the same calibration curves as the Hach® products.

Orbeco-Hellige guarantees that using our replacement reagents in Hach® products will yield the equivalent results – or your money back.

Why pay more to get the same results?



Powder Packs & Tube Tests

Parameter	Range**	Orbeco-Hellige Description	P/N	Hach® Equivalent P/N
Aluminum	0.01 - 0.25 mg/l	ECR Reagent Powder Packs	RP162-0	2603849
		Hexamethylenetetramine Buffer	RP165-0	2603999
		ECR Masking Reagent Solution	L531625	2380123
		Aluminum Reagent Set	RS5000	2603700
Ammonia, Free (part of monochloramines)	0.01 - 0.5 mg/l	Monochlor F Reagent	RP181-0	2802299
		Free Ammonia Reagent Solution	L531800	2877336
		Free Ammonia Reagent Set	RS5800	2879700
Chlorine, Free ⁺	0 - 3.5 mg/l	DPD Free Chlorine Reagent, 5 ml size	RP009-0 (100 ct.)	1407799
		DPD Free Chlorine Reagent, 5 ml size	RP009-3 (1000 ct.)	1407728
	0 - 2.00 mg/l	DPD Free Chlorine Reagent, 10 ml size	RP010-0 (100 ct.)	2105569
		DPD Free Chlorine Reagent, 10 ml size	RP010-3 (1000 ct.)	2105528
	0 - 5.00 mg/l	DPD Free Chlorine Reagent, 25 ml size	RP011-0 (100 ct.)	1407099
		DPD Free Chlorine Reagent, 25 ml size	RP011-3 (1000 ct.)	1407028
Chlorine, Total ⁺	0 - 3.5 mg/l	DPD Total Chlorine Reagent, 5 ml size	RP008-0 (100 ct.)	1407699
		DPD Total Chlorine Reagent, 5 ml size	RP008-3 (1000 ct.)	1407628
	0 - 2.00 mg/l	DPD Total Chlorine Reagent, 10 ml size	RP012-0 (100 ct.)	2105669
		DPD Total Chlorine Reagent, 10 ml size	RP012-3 (1000 ct.)	2105628
	0 - 5.00 mg/l	DPD Total Chlorine Reagent, 25 ml size	RP013-0 (100 ct.)	1406499
		DPD Total Chlorine Reagent, 25 ml size	RP013-3 (1000 ct.)	1406428
Chlorine, Total (KI)	10 - 200 mg/l	Sulfamic Acid Powder Packs, 10 ml size	RP219-0	105599
		Potassium Iodide Powder Packs	RP218-0	107799
COD ⁺	0 - 150 mg/l	COD Tube Test Reagents, 25 Pack	TT20720	2125825
		COD Tube Test Reagents, 150 Pack	TT20725	2125815
	0 - 1,500 mg/l	COD Tube Test Reagents, 25 Pack	TT20721	2125925
		COD Tube Test Reagents, 150 Pack	TT20726	2125915
	0 - 15,000 mg/l	COD Tube Test Reagents, 25 Pack	TT20722	2415925
		COD Tube Test Reagents, 150 Pack	TT20727	2415915

* Not sold separately, must be purchased as part of reagent set

** Range is approximate and may vary by instrument or test kit.

⁺ US EPA Compliant

Hach is a registered trademark of the Hach Company, Loveland, CO.

Powder Packs & Tube Tests

Parameter	Range**	Orbeco-Hellige Description	P/N	Hach® Equivalent P/N
COD, Mercury Free	0 - 150 mg/l	COD Tube Test Reagents, 25 Pack	TT20710	2565025
	0 - 1,500 mg/l	COD Tube Test Reagents, 25 Pack	TT20711	2565125
		COD Tube Test Reagents, 150 Pack	TT20716	2565115
	0 - 15,000 mg/l	COD Tube Test Reagents, 25 Pack	TT20712	2834325
Copper	0 - 5 mg/l	Copper Reagent Powder Packs, 100 ct.	RP030-0	2105869
		Copper Reagent Powder Packs, 1000 ct.	RP030-1	2105828
DEHA	20 -500 µg/l	Oxyscav-1 Powder Pack Reagent	RP140-0	2167969
		DEHA 2 Reagent Solution	L531410	2168049
		DEHA Reagent Set	RS6000	2446600
Iron, Total	0 - 1.8 mg/l	Iron TPTZ Powder Pack Reagent	RP055-0	2608799
	0 - 3 mg/l	Iron Ferro Reagent Powder Packs, 100 ct.	RP056-0	2105769
		Iron Ferro Reagent Powder Packs, 1000 ct.	RP056-3	2105728
Manganese	0 - 0.7 mg/l	Ascorbic Acid Reagent	RP110-0	1457799
		Alkaline-Cyanide Solution	L530620	2122326
		PAN Indicator Solution	L530630	2122426
		Manganese LR Reagent Set, 50 ct.	RS5090	2651700
Manganese	0 - 20 mg/l	Manganese Citrate Reagent (Buffer)	RP065-0	2107669
		Sodium Periodate Reagent	RP066-0	2107769
		Manganese HR Reagent Set	RS5100	2430000
Molybdate	0.03-3 mg/l	Molybdenum 1 LR Reagent, 20 ml	RP081-0	2352449
	0.05 - 5 mg/l	Molybdenum 2 Reagent LR	L530820	2352512
		Molybdate LR Reagent Set, 20 ml	RS5450	2449400
Molybdate	0 - 35 mg/l	Molybdate HR1 Powder Pack, 10 ml	RP075-0	2604299
		Molybdate HR2 Powder Pack, 10 ml	RP076-0	2604399
		Molybdate HR2 Powder Pack, 10 ml	RP077-0	2604499
		Molybdate HR Reagent Set	RS5300	2604100
Molybdate	0 - 35 mg/l	Molybdate HR1 Powder Pack, 25 ml	RP078-0	1414669
		Molybdate HR2 Powder Pack, 25 ml	RP079-0	1414869
		Molybdate HR2 Powder Pack, 25 ml	RP080-0	1417869
		Molybdate HR Reagent Set	RS5400	2243400
Nitrate	0 - 30 mg/l	Nitra-X Tube Test - Reagent A	TT0580	
		Nitra-X Chromotropic - Reagent B	RP059-0	2605546
		Nitrate Tube Test Reagent Set	RS5580	2605345
Nitrite	0 - 0.3 mg/l	Nitrite 3 Powder Pack, 10 ml	RP098-0	2107169
		Nitrite 3 Powder Pack, 25 ml, 100 ct.	RP097-0	1406599
		Nitrite 3 Powder Pack, 25 ml, 1000 ct.	RP097-3	1406528
Nitrogen, Ammonia	0 - 2.5 mg/l	Ammonia Cyanurate Reagent, 5 ml	RP115-0	2395466
		Ammonia Salicylate Reagent, 5 ml	RP116-0	2395266
		AM Dilution Tube, LR*	--	--
		Ammonia LR Reagent Set	RS5600	2604545

* Not sold separately, must be purchased as part of reagent set

** Range is approximate and may vary by instrument or test kit.

Hach is a registered trademark of the Hach Company, Loveland, CO.

Hach® Equivalent Reagents

Powder Packs & Tube Tests

Parameter	Range**	Orbeco-Hellige Description	P/N	Hach® Equivalent P/N
Nitrogen, Ammonia	0 - 50 mg/l	Ammonia Cyanurate Reagent, 5 ml	RP115-0	2395466
		Ammonia Salicylate Reagent, 5 ml	RP116-0	2395266
		AM Dilution Tube, HR*	L531140	--
		Ammonia HR Reagent Set	RS5650	2606945
Nitrogen, Ammonia	0 - 0.5 mg/l	Ammonia Salicylate Reagent, 10 ml	RP138-0	2653299
		Ammonia Cyanurate Reagent, 10 ml	RP137-0	2653199
		Ammonia Nitrogen Reagent Set	RS5500	2668000
Nitrogen, Total	0 - 25 mg/l	Total N Persulfate Reagent	RP037-0	2671846
		Total Nitrogen Reagent A	RP038-0	2671946
		Total Nitrogen Reagent B	RP039-0	2672049
		Total Nitrogen Hydroxide LR Tubes*	--	--
		Total Nitrogen Acid LR/HR Tube*	--	--
		Total Nitrogen LR Reagent Set	RS5550	2672245
Nitrogen, Total	0 - 150 mg/l digestion method	Total N Persulfate Reagent	RP037-0	2671846
		Total Nitrogen Reagent A	RP038-0	2671946
		Total Nitrogen Reagent B	RP039-0	2672049
		Total Nitrogen Hydroxide HR Tubes*	--	--
		Total Nitrogen Acid LR/HR Tube*	--	--
		Total Nitrogen HR Reagent Set	RS5560	2714100
Oxygen Scavenger (see DEHA)				
Phosphorous, Reactive (Orthophosphate)	0 - 2.5 mg/l	Phosphate 3 Reagent, 100 ct.	RP155-0	2106069
		Phosphate 3 Reagent, 1000 ct.	RP155-3	2106028
Phosphorous, Reactive (Orthophosphate)	0.06 - 5 mg/l	Dilution Tube*	--	--
		Phosphate 3 Reagent	RP155-1	2106046
		Deionized water Bottle*	--	--
		Reactive Phosphorus Reagent Set	RS5200	2742545
Phosphorous, Total	0.02 - 1.1 P / 0.06 - 3.5 PO ₄ mg/l	Acid Reagent Vial Tube Test*	--	--
		Phosphate 3 Reagent	RP155-1	2106046
		Deionized Water Bottle*	--	--
		1.54 N NaOH Bottle	L531530	2743042
		Potassium Persulfate Reagent	RP156-0	2084766
Total Phosphate Reagent Set	RS5210	2742645		
Phosphate, acid hydrolyzable	0.02 - 1.6 P / 0.06 - 5 PO ₄ mg/l	Acid Reagent Vial*	--	--
		Phosphate 3 Reagent	RP155-1	2106046
		Deionized Water Bottle*	--	--
		1 N NaOH	L531520	--
		1.54 N NaOH	L531530	2743042
		Potassium Persulfate Reagent	RP156-0	2084766
Phosphorous Reagent Set	RS5250	2742745		
Phosphonate	0 - 125 mg/l	Phosphate 3 Reagent	RP155-0	2106069
		Potassium Persulfate Reagent	RP156-0	2084766
		Phosphonates Reagent Set	RS5220	2429700

* Not sold separately, must be purchased as part of reagent set

** Range is approximate and may vary by instrument or test kit.

Hach is a registered trademark of the Hach Company, Loveland, CO.

Powder Packs & Tube Tests

Parameter	Range**	Orbeco-Hellige Description	P/N	Hach® Equivalent P/N
Silica	0 - 1.5 mg/l	Amino Acid F Reagent	RP160-0	2254069
		Silica Citric Acid Reagent	RP171-0	2106269
		Molybdate 3 Reagent Solution	L531730	199526
		Silica LR Reagent Set	RS5690	2459300
Silica (10 ml size)	0 - 100 mg/l	Silica HR Acid Reagent size	RP170-0	2107469
		Silica Citric Acid Reagent	RP171-0	2106269
		Silica HR Molybdate Reagent	RP172-0	2107369
		Silica HR Reagent Set	RS5700	2429600
Silica (25 ml size)	0 - 200 mg/l	Silica HR Acid Reagent size	RP193-0	104299
		Silica Citric Acid Reagent	RP194-0	1454899
		Silica HR Molybdate Reagent	RP195-0	104199
		Silica UHR Reagent Set	RS5900	2244300
Sulfate	0 - 70 mg/l	Sulfate 4 Reagent, 10 ml size, 100 ct.	RP216-0	2106769
		Sulfate 4 Reagent, 25 ml size, 100 ct.	RP215-0	1206999
		Sulfate 4 Reagent, 25 ml size, 1000 ct.	RP215-0	1206928
Triazole	1 - 16 mg/l	Triazole Reagent, 25 ml, 100 ct.	RP220-0	2141299

Superior Powder Pack Design

EASY TO OPEN AND HANDLE

- Each pack has a “pre-tear” notch -- no scissors necessary!
- Our powder packs are 37% larger than the leading competitor--which makes them easier to handle--especially when wearing gloves.

BEVELED EDGE

- Helps to ensure all of the powder reagent comes out.
- Prevents reagent from getting “stuck” in the corners of the pack.



Powder Pack Reagents from Orbeco-Hellige are easy to handle, easy to open (no scissors necessary!) and easy to pour!

We think you will find them to be:

- Easier to Handle – Orbeco’s new powder packs are 37% larger than the competition which makes them easier to handle, especially by people with larger hands
- Easier to Open – Orbeco’s Powder Packs have a defined “Easy Open Notch” that makes it simple to tear open the package. No scissors are necessary, as are sometime required on the competitive product.
- Easier to Dispense and Pour – Orbeco’s powder packs easily create a “V” to allow the user to pour the powder into the sample cell.

* Not sold separately, must be purchased as part of reagent set

** Range is approximate and may vary by instrument or test kit.

Hach is a registered trademark of the Hach Company, Loveland, CO.

PD250 DPD Chlorine Reagent Dispenser

Simply squeeze the handle and a perfect dose of DPD Free or DPD Total Chlorine reagent is released into the sample.

Reagent refills also work in the Hach® SwifTest™! Our DPD reagents serve as a direct replacement for Hach® reagents - the calibration curves are the same, so you get the same results, at a more economical price.



Parameter	~ Range**	Orbeco-Hellige Description	P/N	Hach® Equivalent P/N
Chlorine, Free	0 - 2.00 mg/l	PD250 Dispenser, DPD Free Chlorine PD250 DPD Free Chlorine Reagent Refill	PD250-30 PD250-31	2802300 2105560
Chlorine, Total	0 - 2.00 mg/l	PD250 Dispenser, DPD Total Chlorine PD250 DPD Total Chlorine Reagent Refill	PD250-40 PD250-41	2802400 2105660

Online Process Chlorine Analyzer Reagents



Orbeco-Hellige is pleased to announce the addition of Free and Total Chlorine Reagent Sets for Process Chlorine Analyzers. These reagents have been specifically formulated to work with the Hach® CL17™ and other manufacturer's online chlorine analyzers.

- Cut Cost, Not Quality - proven quality at competitive prices
- Hach® equivalent chemistries
- Supplies enough Reagent for 30 Days of continuous operation
- Packaged in similar sized Bottles to fit directly into the Hach® CL17™

Parameter	Orbeco-Hellige Description	P/N	Hach® Equivalent P/N
Chlorine, Free	Free Chlorine Reagent Set for Process CL Analyzer	CA5302-10	2556900
Chlorine, Total	Total Chlorine Reagent Set for Process CL Analyzer	CA5402-10	2557000
	DPD Indicator Powder	CA5302-21	2297255
Chlorine, Free	Free Chlorine Indicator Solution, 473 ml	CA5302-22	2314011
Chlorine, Free	Free Chlorine Buffer Solution, 473 ml	CA5302-23	2314111
Chlorine, Total	Total Chlorine Indicator Solution, 473 ml	CA5402-22	2263411
Chlorine, Total	Total Chlorine Buffer Solution, 473 ml	CA5402-23	2263511

** Range is approximate and may vary by instrument or test kit.
Hach is a registered trademark of the Hach Company, Loveland, CO.

Digital Titrator Cartridges

Available for a wide variety of parameters, the Digital Titrator Cartridges are ideal for performing titrations in the field -- No need for additional glassware!



Parameter	Range**	Orbeco-Hellige Description	P/N	Hach® Equivalent P/N
Acid-Base	10 - 4000 meq/L	DT Cartridge, HCl, 8.00 N	DT010-01	1439001
	10 - 4000 meq/L	DT Cartridge, H ₂ SO ₄ , 8.00 N	DT011-03	1439101
	10 - 4000 meq/L	DT Cartridge, NaOH, 8.00 N	DT012-06	1438101
Acidity	10 - 40 - 160 mg/L CaCO ₃	DT Cartridge, NaOH, 0.1600 N	DT012-01	1437701
	100 - 4000 mg/L CaCO ₃	DT Cartridge, NaOH, 1.600 N	DT012-04	1437901
Alkalinity, P and Total	10-40-160 mg/L CaCO ₃	DT Cartridge, H ₂ SO ₄ , 0.1600 N	DT011-01	1438801
	100 - 4000 mg/L CaCO ₃	DT Cartridge, H ₂ SO ₄ , 1.600 N	DT011-02	1438901
Carbon Dioxide	10-50-100 mg/L CO ₂	DT Cartridge, NaOH, 0.3636 N	DT012-02	1437801
	100-400-1000 mg/L CO ₂	DT Cartridge, NaOH, 3.636 N	DT012-05	1438001
Chloride	10-40-100 mg/L Cl ⁻	DT Cartridge, AgNO ₃ , 0.2256 N	DT013-01	1439601
	100 - 10,000 mg/L Cl ⁻	DT Cartridge, AgNO ₃ , 1.128 N	DT013-02	1439701
	10-40-160 mg/L Cl ⁻	DT Cartridge, Hg(NO ₃) ₂ , 0.2256 N	DT014-01	1439301
	100 - 8000 mg/L Cl ⁻	DT Cartridge, Hg(NO ₃) ₂ , 2.256 N	DT014-02	92101
Chlorine (Sodium Hypochlorite)	0-1000 ppb	DT Cartridge, PAO, 0.00564 N	DT023-01	199901
	20 - 2000 mg/L as Cl ₂	DT Cartridge, Na ₂ S ₂ O ₃ , 0.113 N	DT015-01	2267301
	0.2-0.9-1.8-3.5-7.0 % Cl ₂	DT Cartridge, Na ₂ S ₂ O ₃ , 2.00 N	DT015-04	1440101
	0.01-3 mg/L as Cl ₂	DT Cartridge, FEAS, 0.00564 N	DT016-01	2292301
	0-1000 ppb	DT Cartridge, Iodine titrant, 0.0282 N	DT017-01	2333301
	50 - 150 g/L Cl ₂ / 5-15%	DT Cartridge, Na ₂ S ₂ O ₃ , 2.26 N	DT015-05	686901
Chromate	20 - 800 mg/L as [CrO ₄] ²⁻	DT Cartridge, Na ₂ S ₂ O ₃ , 0.2068 N	DT015-03	2267601
EDTA, Residual	1-200 mg/L as 38% Na ₄	DT Cartridge, MgCl ₂ , 0.0800 M	DT019-01	2062501
Hardness, Ca, Mg, Total	10-40-160 mg/L	DT Cartridge, EDTA, 0.0800 M	DT020-01	1436401
	100 - 4000 mg/L	DT Cartridge, EDTA, 0.800 M	DT020-04	1439901
	1-4-16 °dH	DT Cartridge, EDTA, 0.1428 M	DT020-02	1496001
	10-40-25-100-200 °dH	DT Cartridge, EDTA, 0.714 M	DT020-03	1495901
Iron	10-40-100 mg/L Fe	DT Cartridge, Hardness 0.0716 M	DT021-01	2081701
	100-400-1000 mg/L Fe	DT Cartridge, Hardness 0.716 M	DT021-02	2081801
Nitrite	100 - 2500 mg/L	DT Cartridge, Ceric 0.5 N	DT022-01	22707-01
Oxidants	0-0.5 meq/L	DT Cartridge, Na ₂ S ₂ O ₃ , 2.00 N	DT015-04	1440101
Oxygen, Dissolved	1-5-10 mg/L as O ₂	DT Cartridge, Na ₂ S ₂ O ₃ , 0.2000 N	DT015-02	2267501
	10-100 mg/L as O ₂	DT Cartridge, Na ₂ S ₂ O ₃ , 2.00 N	DT015-04	1440101
Salinity	0.1-100 ppt salinity	DT Cartridge, Hg(NO ₃) ₂ , 2.570 N	DT014-03	2393701
Sulfite	100 - 1600 mg/L as SO ₃ ²⁻	DT Cartridge, KIO ₃ / KI, 0.3998 N	DT018-01	1496101
Volatile Acids	100 -2400 Acetic acid	DT Cartridge, NaOH, 0.9274 N	DT012-03	1484201