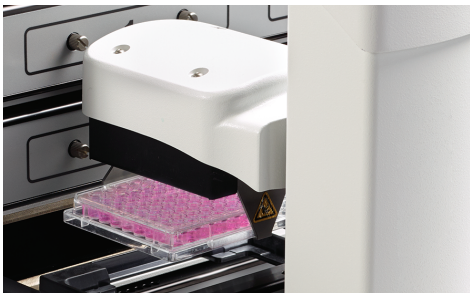
Agilent
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Ordering Guide

Agilent BioTek Detection Accessories



Enhance your workflow

Agilent BioTek offers a wide range of accessories to help increase productivity, expand your plate reader's capabilities, and maintain the performance of your Agilent BioTek microplate reader system.



Peripherals

Agilent BioTek microplate multimode and single mode readers enable a wide range of detection workflows in the life science laboratory. Peripherals and accessories are available to further increase productivity.

Agilent BioTek Take3 microvolume plate

Agilent BioTek Take3 microvolume plate increases the functionality of your Agilent BioTek microplate reader by decreasing the sample size required to a mere 2 µL! Take3 microvolume plates are compatible with Agilent BioTek Cytation, Synergy and Epoch readers for microvolume absorbance and fluorescence quantification.

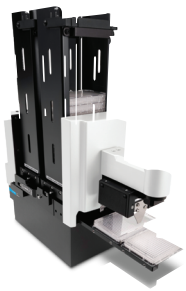
Description	Part Number
Take3 microvolume plate with 16 sample microspots; plus 1 cuvette location and 2 BioCell locations.	TAKE3
Take3 microvolume plate with 48 sample microspots; plus 2 BioCell locations.	TAKE3TRIO
Complete slide replacement kit with calibration solution. Includes the Take3 calibration solution p/n 4693002 and the slide replacement kit p/n 4690009.	4690010





Agilent BioTek BioSpa 8 automated incubator

Agilent BioSpa 8 automated incubator enables complete workflow automation for ELISA to long-term live cell assays. It handles up to eight microplates or other labware in the temperature and CO_2/O_2 - controlled environment, with humidity monitoring. Link a washer or dispenser and a plate reader or imager for start-to-finish workflow automation.



Agilent BioTek BioStack microplate stacker

Automate routine microplate reading processes for up to 50 plates at a time with the compact Agilent BioTek BioStack. BioStack 4 offers the added utility of patented plate de-lidding and re-lidding for 96- to 1536-well plates and Nunc 6- to 48-well plates.



Agilent BenchCel microplate handler

The Agilent BenchCel microplate handler is a compact, automated system that can be integrated with a variety of Agilent BioTek instrumentation to enable a wide variety of applications. Compatible liquid handlers include MultiFlo FX multimode dispenser, 406 FX washer dispenser, 405 TS, 405 LS, and the ELx405 deep well washer. Compatible detection instruments include Cytation, Synergy Neo2 and Synergy H1 multimode readers, and Epoch 2 microplate spectrophotometer. BenchCel is compatible with a wide range of microplates including deep-well plates.

Peripherals (cont.)



Peltier Cooling Module

The Peltier Cooling Module promotes a rapid interior cool down after incubated processes. It maintains environmental stability, allowing < 1 °C rise in ambient temperature. For use with Agilent BioTek Cytation cell imaging multimode reader. p/n 1700001

Dual-reagent injector and accessories

The dual-reagent injector module enables applications that require rapid inject/read functions, such as calcium flux assays. Two precision syringes supply rapid injection of 5 to 1,000 µL in 1 µL increments. Injectors are available for Agilent BioTek Cytation, Synergy Neo2, Synergy H1, and Synergy HTX.

Description	Name	p/n
For use with Cytation, Synergy Neo2, Synergy H1, and Synergy HTX. Requires feedthrough assembly, see "Dual-reagent accessories".	Dual reagent injector module	8040036
Dual-reagent accessories		
Feedthrough with straight injector tips. For use with p/n 8040036.	Feedthrough assembly	8040038
Injector feedthrough accessory with straight dispense tips, for use with p/n 8040036 (for Synergy HTX) only.	Feedthrough assembly	1340518
Direct fluid to the sides of the microplate wells for gentle injecting. For use with p/n 8040038, tips are exchangeable.	Angled injector tips	1320514



Agilent BioTek Synergy Neo2 shown with CO_2/O_2 gas controller and dual reagent injector.

Gas controller and accessories

The compact gas controller provides full control over CO_2 and O_2 concentration to optimize cell assays.

Description	p/n
Controller for CO_2 only. For use with Cytation, Synergy Neo2, and Synergy H1.	1210012-S
Controller for CO_2 and O_2. For use with Cytation, Synergy Neo2, and Synergy H1.	1210013-S
Gas controller accessories	
Accuracy verification kit for both gas controllers (CO_2 and O_2 or CO_2 only). Includes: – Tank with precision percentages of CO_2 and O_2 – Fixed flow regulator – Tubing with connector for sample port	1210011
CO_2 flow meter and tubing	1213032
N_2 flow meter and tubing	1213033
CO_2 regulator, inlet fitting meets CGA 320 standard	1210514
N_2 regulator, inlet fitting meets CGA 580 standard	1210515
Replacement tank for accuracy verification kit	01503

Agilent BioTek Gen6 data analysis software

Agilent BioTek single- and multimode readers come with Gen6 data analysis software. Gen6 enables efficient setup, plate reading, and analysis for both new and experienced users. Gen5 Secure is available to help comply with GxP requirements.

Description	Edition	Part Number
Complete reader control and data analysis for all Agilent BioTek microplate readers.	Gen6	GEN6
Complete reader control and data analysis for all Agilent BioTek microplate readers. Gen5 Secure includes features designed to help laboratories maintain critical GxP requirements, including 21 CFR Part 11.	Gen5 Secure	GEN5SECURE

Compliance tools

Product qualification packages

Agilent BioTek product qualification packages contain comprehensive procedures, checklists, test data and log sheets so that users can perform IQ/OQ/PQ testing specific to their laboratory and organizational requirements. Qualification packages are delivered on a USB drive, with documentation, and test data in Microsoft Word, Excel, and Adobe PDF formats.

Some of the procedures call for liquid testing – Agilent BioTek provides instructions within the procedures, and for convenience offers several prepared reagents (see Test Reagents below).

For Use With	Part Number
Cytation 7	1720521
Cytation 5	1320532
Cytation 1	1650512
Synergy Neo2	1350526
Synergy H1	8040528
Synergy HTX	1340508
Synergy LX	1500534

For Use With	Part Number
Epoch2	1330520
Epoch	7200515
800 TS	1560516
Gas controller	1210512
BioStack	7310530

Compliance tools (cont.)

Test plates

Agilent BioTek test plates are designed to automate testing of critical performance parameters, without requiring liquid testing.

Description	Name	Part Number
The fluorescence test plate checks for: – Carrier 'flatness' – Fluorescence intensity linearity (excitation 485 nm, emission 528 nm) – Limit of detection for: - Fluorescence intensity - green (excitation 485 nm, emission 528 nm) - Fluorescence intensity - blue (excitation 360 nm, emission 460 nm) - Fluorescence polarization (excitation 485 nm, emission 528 nm) - Time-resolved fluorescence (excitation 360 nm, emission 620 nm) Each fluorescence test plate comes with: – Certificate of calibration – Flash drive with user manual and test protocols – Dust blower and cleaning swabs – NIST-traceable fluorescein standard – For use with Cytation, Synergy	Fluorescence test plate	1400501
Agilent BioTek absorbance test plate helps meet regulatory instrumentation validation requirements by testing four critical specifications: – Alignment – Accuracy – Reproducibility – Linearity Each absorbance test plate consists of the following: – NIST-traceable neutral density glass filters for checking accuracy, reproducibility, and linearity – Glass filter for monochromator accuracy – Blanking verification holes – Alignment verification holes – Calibration data at eight wavelengths is supplied for full range testing – For use with all Agilent BioTek microplate readers	Absorbance test plate	7260522
For use with 800 TS "UV" configurations. Tests linearity, accuracy, repeatability, and alignment. Includes six filters for testing 340 nm at different optical densities.	340 nm absorbance test plate	7260551
The NIST-traceable luminescence test plate helps automate key testing as part of your instrument validation program. The simple design uses ultra-stable low light level LEDs and is easy to use. For use with luminescence-capable Agilent BioTek multimode readers.	Luminescence test plate	8030015

Test reagents and accessories

For use with	Part Number
Agilent BioTek QC check solution #1 - yellow (125 mL). Used for 800 TS (all models) and Synergy (all models) absorbance qualification tests.	7120782
Agilent BioTek QC check solution #1 - yellow (25 mL). Used for 800 TS (all models) and Synergy (all models) absorbance qualification tests.	7120779
Agilent BioTek green test dye (125 mL). Used to test reagent injectors on all multimode readers during qualification.	7773003
Agilent BioTek 10x green test dye (125 mL). Used to test reagent injectors on all multimode readers during qualification.	7773005
Agilent BioTek 50x green test dye (125 mL). Used to test reagent injectors on all multimode readers during qualification.	7773015
Sodium fluorescein power (1 mg vial). Used for Synergy fluorescence qualification tests.	98155

Fluorescence filter cubes



Description	EX	EM	Mirror	Part Number
For Synergy LX				
LUM filter cube	-	-	-	1505003
Red filter cube	530/25	590/35	570	1505004
Green filter cube	485/20	528/20	510	1505005
Blue filter cube	360/40	460/40	400	1505006
For Synergy H1 and Cytation				
Fluorescence intensity filter cubes				
Blue	360/40	460/40	400	8040501
Green	485/20	528/20	510	
Green	485/20	528/20	510	8040502
Red	530/25	590/35	570	
Far red	620/40	680/30	600	8040582
Green/LUM	485/20	528/10	510	8040583
Blue	360/40	460/40	400	8040584
Red	530/25	590/25	570	
Blue	380/20	440/30	400	8040576
Green	485/20	528/20	510	
Empty cube, non-FP applications				8040566
Luminescence filter cubes				
Luminescence cube	-	-	-	8040553
BRET 1 cube	-	540/25, 460/40	-	8040574
NanoBRET cube	-	450/50, 610 LP	-	8040592
BRET 2 cube	-	515/30, 410/80	-	8040575
Time-resolved fluorescence filter cubes				
HTRF europium/Red	330/80	620/10, 665/8	365	8040505
LanthaScreen, Terbium	340/30	495/10, 520/25	400	8040506
Lance filter set	360/40	620/10, 665/8	400	8040507
MitoXpress cube	380/20	645/15	400	8040587
pH-Xtra Glycolysis	380/20	620/10	400	8040588
Fluorescence polarization filter cubes				
Green FP filter cube	485/20	528/20	510	8040561
Red FP filter cube	530/25	590/35	570	8040562
Blue FP filter cube	360/40	460/40	400	8040563
Far red FP cube	620/40	680/30	660	8040581
Deep UV cube	284/10	340/30	320	8040578
Empty filter cube: FP visible, excitation > 400 nm				8040564
Empty filter cube: FP UV, excitation between 300 and 400				8040565

Fluorescence filter cubes (cont.)

For Synergy Neo2

Special cubes for common applications

Cube number	Paired with	Description	EX	EM	Mirror	Part Number
1	2	Alpha top, (96-/384-well)	-	570/100	100%	1035001
2	1 or 5	Alpha top, (dual PMT)	-	-	100%	1035002
3	101 and up	Dual PMT single emission cube*	-	-	100%	1035003
4	61 to 70	All dual FP assays	-	-	-	1035004
5	2	Alpha (1536-well plates)	-	570/100	100%	1035005
6	73	AlphaPlex lower cube. For Synergy Neo2 use only.	-	-	100%	1035006

Required for top measurement when paired with cubes 1035101 or higher. Not for use with single PMT configurations of Synergy Neo2.

Excitation cubes for dual emission assays

Cube number	Paired with	Description	EX	Mirror	Part Number
11	41	HTRF-europium	330/80	365	1035011
12	42, 49	HTRF terbium, LanthaScreen terbium	340/30	400	1035012
13	43	CFP-YFP FRET	420/50	455	1035013
14	44, 46, 47	FITC-TRITC, EGFP-Cy3, EGFP-YFP FRET	485/20	510	1035014
15	45	Cy3-Cy5 FRET	540/25	550	1035015
16	48	GeneBLAzer, Z-Lyte	400/30	435	1035016
17	41	LANCE	360/40	400	1035017
18	41,42,49	TRF laser excitation	337/10	365	1035018

Required for top measurement when paired with cubes 1035101 or higher. Not for use with single PMT.

Emission cubes for dual emission assays

Cube number	Paired with	Description	EM	Mirror	Part Number
FRET					
41	11,17	HTRF, LANCE red	620/10, 665/8	650	1035041
42	12	LanthaScreen	495/10, 520/25	510	1035042
43	13	CFP-YFP FRET	485/20, 540/25	510	1035043
44	14	FITC-TRITC FRET	528/20, 575/15	550	1035044
45	15	Cy3-Cy5 FRET	590/35, 680/30	660	1035045
46	14	EGFP-Cy3 FRET	516/20, 590/35	570	1035046
47	14	EGFP-YFP FRET	516/20, 540/25	525	1035047
48	16	GeneBLAzer, Z-Lyte	460/40, 528/20	510	1035048
49	12	HTRF green	520/10, 620/10	550	1035049
BRET					
71	*	BRET 1 dual PMT	480/530	510	1035071
72	*	BRET 2 dual PMT	400/510	470	1035072
74	*	NanoBRET	450/610	550	1035074
ALPHA					
73	6	Dual Alpha (AlphaPlex)	540/25, 615/16	570	1035073

**Any lower cube with open "LUM" position.*

Fluorescence filter cubes (cont.)



Dual FP cubes. Pair with cube #4 (p/n 1035004)

Cube	Description	EX	EM	Mirror	Part Number
61	Dual FP green	485/20	528/20	510	1035061
62	Dual FP red1	530/25	590/35	570	1035062
63	Dual FP red2	590/20	635/32	595	1035063
64	Dual FP far red	620/40	680/30	660	1035064
65	Dual FP double	485/20, 530/25	530/25, 590/35	510, 570	1035065
66	Dual FP UV	360/40	460/40	400	1035066
67	Dual FP UV	340/30	530/25	400	1035067

Single PMT or Dual PMT single emission lower cube. Use cube 3# (p/n 1035003) as upper cube.

Cube	Description	EX	EM	Mirror	Part Number
Fluorescence intensity					
101	GFP and lum	485/20	516/20	510	1035101
102	GeneBLAzer	400/30	460/40, 528/20	435	1035102
103	FITC-TRITC FRET	485/20	528/20, 575/15	510	1035103
104	EGFP-Cy3 FRET	485/20	516/30. 590/35	510	1035104
105	EGFP-YFP FRET	485/20	516/20,540/25	510	1035105
106	Cy3-Cy5 FRET	540/25	590/35,680/30	570	1035106
107	MUB/SF	360/40,485/20	460/40, 528/20	400, 510	1035107
111	Fluorescein (green, red)	485/20, 530/25	528/20, 590/35	510, 570	1035111
115	Red, far red	530/25, 620/40	590/35, 680/30	570, 660	1035115
116	Fura 2	340/11, 380/20	508/20	400	1035116
Luminescence					
117	BRET1	-	460/40, 540/25	-	1035117
109	BRET2	-	410/80, 515/30	-	1035109
114	Luminescence standard / 1536	-	-	-	1035114
121	Lum 485, lum 600	-	485/20, 600/40	-	1035121
122	NanoBRET	-	450/50, 610 LP		1035122
Time-resolved fluorescence					
112	Delfia europium and lum	360/40	620/40	400	1035112
113	Omnia and lum	360/40	485/20	400	1035113
119	HTRF red	330/80	620/10, 665/8	365	1035119
123	Cube 123 MitoXpress	380/20	645/15	400	1035123
124	Cube 124 pH-Xtra glycolysis	380/20	620/10	400	1035124
125	HTRF Tb/green	340/30	520/10, 620/10	400	1035125
Fluorescence polarization					
108	Green FP	485/20	530/25	510	1035108
110	Far red FP	620/40	680/30	660	1035110
118	Deep UV FP	284/10	340/30	320	1035118
120	FP	530/20	590/20	570	1035120
255	Empty customizable filter cube and barcode				1035255 + 1031255

Fluorescence filters



Standard filters

Standard filters are compatible with Synergy LX, HTX, H1, Neo2 and Cytation, except where noted.

Wavelength	Main Application	Part Number
284/10	Tryptophan excitation	7082259*
310/20	Tyrosine emission, O-aminobenzoyl excitation	7082248
320/20	7-methoxycoumarin and Quanta Blu excitation	7082250
330/80	HTRF excitation	7082263
340/11	Fura-2 excitation	7082254
340/30	NADH excitation and tryptophan emission	7082230
360/40	MUB, caspace-3, europium chelate excitation	7082220
380/20	Fura-2 and EBFP excitation	7082228
400/10	-	7082242
400/30	Porphyrin excitation, O-aminobenzoyl and 7-methoxycoumarin emission	7082205
420/27	CFP, Alexa Fluor 430 excitation	7082270
420/50	CFP excitation and Quanta-Blu emission	7082206
440/30	Attophos excitation and caspace-3 emission	7082227
440/40	NADH emission	7082207
450/50	CBQCA excitation, NanoBRET	7082208
460/40	NanoOrange excitation and EBFP and MUB emission	7082222
485/20	Fluorescein, EGFP excitation and CFP emission	7082221
485/40	Propidium iodide excitation	7082209
495/10	LanthaScreen emission 1	7082268
500/27	YFP excitation	7082256
508/20	Fura-2 emission	7082218
516/20	EGFP emission	7082246
520/25	Alexa Fluor 532 excitation, LanthaScreen emission 2	7082267
528/20	VIC excitation and fluorescein and EGFP emission	7082247
530/25	5-Tamra excitation	7082223

Wavelength	Main Application	Part Number
540/25	Alexa Fluor 546, CY3, and rhod2 excitation and EYFP emission	7082249
540/35	Alamar Blu, Amplex red, RFP excitation	7082253
545/40	Rhodamine B excitation	7082210
560/15	CellTiter-Blue excitation	7082215
560/20	VIC emission	7082211
560/40	Attophos and CBQCA emission	7082212
565/10	5-ROX excitation, AF532, HEX and VIC emission	7082271
570/100	AlphaScreen emission	7082264
575/15	ROX excitation and 5-Tamra emission, preferred VIC emission	7082245
580/50	NanoOrange and Attophos emission	7082244
590/20	Alexa Fluor 594 and Texas Red excitation and CellTiter-Blue emission	7082225
590/35	Rhod-2, Alexa Fluor 546, and CY3 emission	7082224
600/40	alamarBlue, Amplex Red, RFP and porphyrin emission	7082252
615/16	Primary AlphaLISA emission	7082269
620/10	HTRF/LANCE emission	7082265
620/15	ROX and Alexa Fluor 594 emission and Alexa Fluor 633 excitation	7082251
620/40	Rhodamine B, europium chelate emission, CY5 excitation	7082213
635/32	Texas Red emission	7082214
645/15	Alexa Fluor 633 emission	7082257
665/7.5	HTRF/LANCE emission	7082266
645/40	Texas Red and propidium iodide emission	7082226
680/30	CY5 emission, AlphaScreen excitation	7082229

** Not for Synergy LX, Synergy HTX*

Fluorescence filters (cont.)

Custom filters

Custom filters are available for the less common applications where alternative filters might be required. Custom filters are compatible with Synergy LX, HTX, H1, Neo2 and Cytation, except where noted.

Wavelength	Main Application	Part Number
276/10	Tyrosine excitation	7092146*
280/10	General protein excitation	7092148*
395/25	wtGFP excitation	7092153
405/20	-	7092154
410/80	BRET2	7092200
485/10	-	7092159
515/30	BRET2	7092201
520/10	-	7092163
532/40	Alternative fluorescein and EGFP emission	7092167
540/15	Cy3, Alexa Fluor 546 excitation	7092168
540/45	Alternative fluorescein and EGFP emission	7092169
560/10	alamarBlue excitation	7092172
610LP	NanoBRET	7092209
585/10	-	7092176
610/10	-	7092179
635/20	-	7092181
645/10	Cy5 excitation	7092182
660/10	Cy5.5 excitation	7092183
670/10	Cy5.5 excitation	7092185
671/20	Cy5.5 excitation	7092186
680/20	-	7092188
Filters below require red PMT in Synergy LX, Synergy HTX, and Synergy H1		
700/20	Cy5.5 emission	7092190
730/40	Cy5.5 emission	7092192

** Not for Synergy LX, Synergy HTX.*

Lamps

Description	For use with	Part Number
Self-aligning lamp	Synergy LX	1500535S
Replacement bulb. Includes bulb, wrench, instructions.	800 TS	1560532
Replacement bulb. Includes bulb, wrench, instructions.	800 TS (UV/NB configurations)	1560533
Tungsten lamp replacement kit	Synergy HTX	7080500

Dichroic mirrors

Agilent BioTek single- and multimode readers come with Gen5 software for reader control, data collection, analysis, reporting and exporting. Other editions are available to help comply with GxP requirements.

Main Applications	Cut-off (nm)	Excitation Range	Emission Range	Half-Size-Part Number	Full-Part Number
Tryptophan	320	260-305	335-750	7138320	n/a
HTRF, MMP, QuantaBlu	365	290-350	380-800	7138365	n/a
MUB, europium chelate, Hoechst 33258, Omnia, LanthaScreen, Adapta	400	320-390	410-800	7138400	7137400
Z'-Lyte	435	385-425	445-610	7138435	7137435
Attophos, CFP, Fluo-3	455	400-450	460-710	7138455	7137455
Fluorescein, Picogreen, FAM	510	440-505	515-640	7138510	7137510
Rhodamine 123, YFP	525	475-520	530-670	7138525	7137525
-	545	512-535	555-578	7138545	7137545
Cy3, HEX, Rhodamine 6G	550	415-540	560-850	7138550	7137550
-	555	541-550	560-595	7138555	7137555
alamarBlue, Amplex Red, TAMRA	570	515-565	575-735	7138570	7137570
ROX, Texas Red	595	540-590	600-770	7138595	7137595
AlphaScreen	635	640-780	400-630	7139635	n/a
Cy5	660	580-655	665-850	7138660	7137660

Absorbance filters

800 TS

Wavelength	Part Number
405	7334405
415	7334415
450	7334450
490	7334490
540	7334540
550	7334550
562	7334562
570	7334570
595	7334595
600	7334600
620	7334620

Wavelength	Part Number
630	7334630
650	7334650
660	7334660
690	7334690
515	7334515
590	7334590
750	7334750
340	1564340
Plug	2872086
Empty filter wheel	7332000

ELx808

Wavelength	Part Number
340	3100340
405	3100405
450	3100450
409	3100490
540	3100540
550	3100550
562	3100562
570	3100570
590	3100590
595	3100595

Wavelength	Part Number
600	3100600
620	3100620
630	3100630
415	3100415
515	3100515
650	3404650
690	3404690
750	3404750
Plug	3122037
Empty filter wheel	3110508s

Miscellaneous

Description	For use with	Part Number
PCR tube holder, fits MJ Research tubes (p/n MSP-9601)	All readers	6002072
PCR microplate holder, fits MJ Research (p/n MLP-9601 and Nunc p/n 259676)	All readers	6002076
Terasaki tray holder, for 60-, 72-, and 96-well Terasaki plates	All readers	7330531

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