

VANTAstar

2024.06.27.



자연과학㈜, 연락처 02-3471-4100

품번	품명
BG421-101	VANTAstar with Monochromator for FI + FRET, 320 - 740 nm, no filters
BG421-110	Bottom Optic (suitable for FI, FP, TRF, and L methods, if option is ordered)
BG421-120	UV/Vis Absorbance Spectrometer (220 - 1000 nm)

- 형광: Black plate 흡광: Clear plate



VANTAstar - Fluorescence

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프로토콜 작성: 모드

			x
User name: USER		~	Login
Password:			
		Account s	ettings
	PMG	LOPT	CCU
	The Micro	nlate Reader	Company

- 1. PC, 기기 켭니다.
- 2. VANATAstar software를 double click 합니다.
- 3.
 "USER" (비번 없음) 선택 후, Login 합니다.

 4.
 기기가 initialize 되는 소리를 듣습니다.
- 5. Firmware version과 SN를 자동 인식합니다.

- 1. Manage Protocols 선택합니다.
- 2. New를 선택합니다.
- 3. Fluorescence 선택합니다.
- 4. Endpoint, Plate mode (slow kinetic), well mode 실험 목적에 따라 선택 후, OK 순서로 선택합니다.

프로토콜 작성: 모드



Fluorescence Intensity - Endpoint	×
Basic Parameters Layout Concentrations & Volumes Shaking	g
Protocol name: 1. Transcreener ADP?FI Microplate: GREINER 384 SMALL VOLUME	Optic 2. Comment Image: Description optic Image: Description optic Image: Description optic
Optic Settings No. of multichromatics (15): 1 + Well multichromatics	Standard General Settings Settling time (0.01.0 s): 0.1 ∏Flying mode
Pre <u>s</u> ets: Alexa Fluor 594 *	No. of <u>fl</u> ashes 4 . (0200): 100
Excitation: Dichroic: Emission: 577-26 604.5 641-44	1. 제목을 입력합니다. 2. Top 또는 Bottom optic을 선택합니다. 3. 파장을 선택합니다.
Well Scan	4. 즉성 외수와 시간, flash number들 입력압니다
	Pause before plate reading for 0 seconds
Check timing Use enhanced dynamic range	Start measurement OK Cancel Help

프로토콜 작성: 형광 모드 (Plate mode)

Fluorescence Intensit	y - Plate Mode				×
Basic Parameters La	yout Concentrations & Volumes	Shaking			
Protocol <u>n</u> ame: 1.	NEW TEST)		Comment
Microplate:	GREINER 384 SMALL VOLUME	Optic Optic	○ <u>B</u> ottom optic		
Optic Settings No. of multichroma	tics (15): 1 atics	+ General Settings Settling time	(0.01.0 s):	Standard	
3. Presets:		No. of kinetic windo	ws (14):	1 >	
Alexa Fluor 488 Alexa Fluor 488 Alexa Fluor 532 Alexa Fluor 546	Emission: 535-30	4. Kinetic Window 1 No. of cycles	(11000):	1	측정 회수와 시간, flash number를 입력합니다.
Alexa Fluor 555		No. of flashes	(0200):	20	*** Kinetic window는 앞서 선
Alexa Fluor 568 Alexa Fluor 594 Alexa Fluor 633 Alexa Fluor 647 Allophycocyanin		Cycle <u>ti</u> me	(110000 s):		택한 plate mode 선택시 생성 ** Cycle time: 첫 측정 well로 돌아오는, 반복 시작 시간 간격
ATTO 520 ATTO 565 1. M ATTO 633 2. ATTO 647 3. BODIPY FL Chi BODIPY TMR-X	제목을 입력합니다. Top 또는 Bottom optic을 선 파장을 선택합니다. range	택합니다. <u>P</u> ause b	efore plate reading for	0 seconds	Cancel Help

프로토콜 작성: 형광 모드 (Well mode)

luorescence Intensity - Well Mode		×
Basic Parameters Layout Concentrations & Volumes Shaki	g	
Protocol <u>n</u> ame: 1. <u>NEW TEST</u> <u>Microplate:</u> GREINER 384 SMALL VOLUME ~	2. Optic © Top optic O Bottom optic	Comment
Optic Settings No. of multichromatics (15): 1 +	Standard General Settings Settling time (0.01.0 s): 0.1 No. of kinetic windows (14): 1 →	
Excitation: Dichroic: Emission:	5. <i>Kinetic Window 1</i> Measurement st <u>a</u> rt time (01200 s): 0.0	➡ 측정 시작 시간을 입력합니다
Well Scan	No. of flashes (11000): 1 No. of flashes (0200): 20	즉성 반복 횟수들 입력합니 e.g. 180회 반복 e.g. flash no 입력
None Y 1. 제목을 입력합니다. 2. Top 또는 Bottom optic을 선택합니다.	End time of kinetic window 1 (s): 0.5	e.g. 0,5초 간격으로 반복 족성 ➡ 180(회 반복)*0.5(초 간격)/\ 초/well
3. 파상을 선택합니다. Min. interval time:	Pause before - v for 0 seconds	
Check timing Use enhanced dynamic range	Start measurement OK	Cancel Help

프로토콜 작성: 형광 모드 (Spectral mode)

Fluorescence Intensity - Spectral Scan	>
Basic Parameters Layout Concentrations & Volumes Shaking	
Protocol <u>n</u> ame: 1. NEW TEST <u>M</u> icroplate: GREINER 384 SMALL VOLUME ~	Optic Comment Image: Dep optic Dep optic
3. Optic Settings Monochromator settings:	General Settings Settling time (0.01.0 s): 0.1
1. 제목을 입력합니다. 2. Top 또는 Bottom optic을 선택합니다.	Measurement start time 4. 01200.0 s): 0.0 No. of flashes (0200): 20
3. 파정을 전택합니다. (다음 들다이드 점조) 4. 측정 회수와 시간, flash number를 입력합니다	Pause before plate reading for 0 seconds
<u>C</u> heck timing	Start measurement OK Cancel Help

CHAYON CHAYON Laboratories, Inc.

- 모르는 형광 물질의 파장을 확인할 때 사용합니다.
- Excitation과 Emission을 각각 확인합니다.
 Save as 를 이용하여 형광 물질 이름을 입력합니다.



프로토콜 작성: Plate layout

Layout 선택 → Sample 선택합니다. 우측 화면에서 시료가 담긴 Well을 선택 후 OK 선택합니다.

Luminescence - Endpoint													×	<
Basic Parameters Layout Cond	entrations	& Volume	s Shakir	ng										
Content: 1. Sample Blank Standard	96	1	2	3	4	5	6	7	8	9	10	11	12	
Empty	Α	X1	X2	X3	×4	X5	X6	X7	X8	X 9	X10	X11	X12	
□ On └─	в	X13	X14	X15	×16	X17	×18	X19	×20	X21	X22	X23	X24	
Index	С	X25	X26	X27	X28	X29	X30	X31	X32	X33	X34	X35	X36	
Constant Increase	D	X37	X38	X39	X40	X41	X42	X43	X44	X45	X46	X47	X48	
Replicates	E	X49	X50	X51	X52	X53	X54	X55	X56	X57	X58	X59	X60	
● <u>H</u> orizontal ○ <u>V</u> ertical	F	X61	X62	X63	X64	X65	X66	X67	X68	X69	X70	X71	X72	
Reading direction:	G	X73	X74	X75	X76	X77	X78	X79	X80	X81	X82	X83	×84	
	Н	X85	X86	X87	×88	X89	×90	X91	X92	X93	X94	X95	X96	
									2	•				
Check timing Use enhanced	dynamic ra	ange				[Start mea	asurement		к	Cance		Help	

프로토콜 작성: 모드

Fluorescence Intensity - Plate Mode	×
Basic Parameters Layout Concentrations & Volumes Shaking Output	
Shaking Actions 1. Shaking 1 Shake: Shake: Shake between readings Shake mode: Double orbital Frequency: 700 rpm	
Cycle(s): all cycles Time: remaining time between cycles On / off time (s): 60 / 60	
 + - 1. Shaking 선택합니다. 2. 각 조건 선택합니다. 3. OK를 누릅니다. 	
Check timing Start measurement	OK Cancel Help

프로토콜 작성: 바로가기 아이콘 생성



프로토콜 작성: 시작

on ,	FI tes	Stop	Barcodi List	MAF	Results	en Last It Run	emperature Invironment Button A	Prime Prime . 앞서 . De . ID1 . Sta	g Prot Prot d 작성 fault 1 ,2,3를 urt me	inage tocols ocols 이 Cal 이 입력 asure	otoco heigh 합니C ement	ol Nar ht, ED ŀ. 후0 ·를 선	ne 선 R 선텍 네 결괴 택합니	¹ 택합니다. 택합니다. 과 확인시 추적이 용이합니다. 니다.
	Focus an	d Dynamic R	ange / Plate II	Os Sample ID	s / Dilution Fa	ctors Cross	talk Determina	tion						2.
	Chai	nge <u>l</u> ayou	2	3	4	5	6	7	8	9	10	11	12	Focus: Default focal height (11mm) V Dynamic range: Enhanced dynamic range (EDR) V
	A	X1	×2	×3	×4	×5	×6	X7	×8	×9	×10	×11	×12	
		×10	V14	VIE	V10	V17	V10	×10	VOA	V01	Voo	200	VOA	_
	В	X13	X14	X15	710		218	×19	X20	721	722	X23	724	*** EDR 기능은, CLARIOstar Plus 모델 이상에서만 지원합니
	С	×25	X26	X27	X28	×29	×30	X31	X32	×33	×34	×35	×36	
	D	X37	×38	×39	×40	X41	X42	X43	×44	X45	×46	X47	×48	
	E	×49	×50	×51	X52	×53	×54	×55	×56	×57	×58	×59	×60	
	F	X61	X62	×63	×64	X65	×66	×67	×68	X69	X70	X71	X72	
	6	X73	X74	×75	×76	X77	X78	×79	×80	X81	×82	×83	×84	-
	н	×85	X86	X87	X88	×89	×90	X91	X92	X93	X94	X95	X96	
-	Plate	Identifica	tion											
ſ	<u>I</u> D1: <	protocol>				v	I <u>D</u> 2: <da< td=""><td>te>,<time></time></td><td></td><td></td><td></td><td>~</td><td>ID3: <1+##</td><td>••••</td></da<>	te>, <time></time>				~	ID3: <1+##	••••
	Auto	omatically en	ter the plate I	Ds previously i	used with this	protocol								Clear IDs Get last IDs
	No. of e	xecuted runs	s since progra	m start: O	Total n	o. of execute	d runs: 0							Run statistics:
	Apertur	e 96/384 r	ecommende	ed 👽								Delay: 0 s	Start	art measurement Save & Close Cancel Help

4.

프로토콜 작성: 시작 (선택), Height Adjustment



*** New Focal height 선택시에만 Adjustment를 수행할 수 있습니다.

CHAYON CHAYON Laboratories, Inc.

*** 이미 이 기능을 수핸한 protocol은 바로가기 생성된 protocol start 선택시 이 단계 없이 바로 측정을 시작합니다.

- Kinetics mode: 샘플과 같은 농도의 형광물질이 포함된 blank well 선택 후, target value를 10%로 set 합니다.
- As all the samples except blank have the same concentration of fluorophore in them at the beginning you should set gain at 10% required value and then do a gain adjustment on any well that has the fluorophore. This will set the initial value at roughly 26000 (10%) of the full range for the first reading
- As the fluorescence increases then the window will show values until it gets to 260,000 so you have a big window to work with.

프로토콜 작성: 시작과 결과 확인



- 1. 실시간 결과 확인할 수 있습니다.
- 2. 결과 측정 후, MARS 아이콘을 선택하여 결과를 확인할 수 있습니다.

CHAYON CHAYON Laboratories, Inc.

결과 확인: MARS



결과 확인: 엑셀 전환 결과 예시

Path:	C:\Program	Files (x86)₩B	MGWCLARIC	Ostar₩User₩	Data								
Test I	D: 69												
Test I	Name: LBase	Test											
Date:	2019-10-24												
Time:	오후 12:10:26	5											
ID1: L	Base Test												
ID2: 2	2019-10-24,오	후 12:10:26											
ID3: 0	8000												
Lumir	nescence												
	1. Ratio base	ed on Raw D	ata and Rav	v Data (calcu	ulated)								
	1	2	3	4	5	6	7	8	9	10	11	12	Input data 1 divided by Input data 2
Α	2.36	2.48	2.3	2.32	1.96	1.85	1.92	1.77	17.27	18.23	17.92	18.15	
B	2.66	2.26	2.53	2.17	1.68	1.58	1.93	2.32	10.07	16.65	10.61	30.3	Used data:
C	2.38	1.69	2.14	1.91	1.81	1.67	2.07	1.52	2.05	2.08	2.09	2.05	Input data 1
D	2.2	2.02	2.1	2.27	1.86	1.67	1.92	1.67	19.28	25.21	34.87	21.43	Wavelength: 656-90 [2]
E	14.31	12.47	12.37	12.27	2.36	2.1	1.88	2.05	10.62	37.38	32.26	41.53	Input data 2
F	13.75	13.12	12.76	11.26	2.2	1.41	3.21	2.78	22.77	47.88	51.92	55.56	Wavelength: 460-40 [1]
G	4.23	4.36	4.11	3.4	2.34	2.16	1.66	2.02	18.13	112.27	363.28	146.76	
Н	6.38	6.13	5.2	5.79	2.32	1.69	2.28	2.37	30.73	66.47	65.04	247.31	Multiplication factor: 1000
	2. Raw Data	(656-90 2)											
	1	2	3	4	5	6	7	8	9	10	11	12	
A	2050	2086	1916	1776	1586	1500	1550	1400	6060	6350	6663	7113	
B	713	590	696	563	450	413	500	586	36	40	26	60	
C	466	320	406	366	360	336	413	313	773	753	813	793	
D	1463	1336	1426	1426	1266	1183	1333	1120	66	50	56	30	
E	4/83	4223	4306	4046	866	/96	/33	/36	23	40	23	26	
F	543	503	493	403	86	56	123	113	23	26	23	20	
G	1210	1280	1146	933	003	030	480	200	20	43	93	43	
н	833	/96	003	/40	280	210	293	290	20	23	10	40	
	2. Dow Data	(460,40,4)											
	3. Raw Data	(460-40-1)	2	4	5	6	7	0	0	10	11	10	
•	000000	2 942106	021516	765622	907210	911270	907072	0 702040	250076	249226	271716	201956	
R	267822	2612/2	27/662	250632	267500	260670	250320	252642	3576	2/02	2/50	1080	
C	195412	189720	189816	191822	199370	200070	199410	205323	376510	361852	388576	385900	
	Micro	nlate End pr	aint Tabl	le End point	Brotocc	al Information	n	200020	370310	301033	300370	303300	: 4
P	wilcro	plate End po	inc rab	e ena point	PIOLOCO	ormation)					: 4

결과 확인: MARS, pdf 전환







VANTAstar – Absorbance, Kinetic assay



자연과학㈜, 연락처 02-3471-4100

프로토콜 작성: 모드

- 1. Manage Protocols 선택합니다.
- 2. New를 선택합니다.
- 3. Abs, Plate mode (slow kinetic), OK 순서로 선택합니다.



- 1. 제목 입력합니다.
- 2. Plate 선택합니다.
- 3. 파장 입력합니다.
- 프로토콜 작성: Abs, Plate mode
- Pathlength correction <u>선택하지 않습니다.</u>
 Cycles과 no of flashes를 조절, 실험 조건에 맞게 입력합니다.

Absorbance - Plate Mode		×
Basic Parameters Layout Concentrations & Volumes Shaking		
Protocol <u>n</u> ame: 1. NEW TEST <u>M</u> icroplate: 2. GREINER 96 F-BOTTOM ~		Comment
Wavelength Settings ● Discrete wavelengths ● Spectra No. of wavelengths (18): 1 Wavelength (2201000 nm): 600 Ø None ✓	▲ Standard General Settings Settling time (0.01.0 s): 0.2 □ Flying mode No. of kinetic windows (14): 1 Kinetic Window 1 5. (11000): 10 No. of flashes (1200): 22 Cycle time (110000 s): 1	Layout tap에서 측정 well 선택 후, 좌측 하 단의 "Check timing" 을 선택하여 총 걸리는 시간을 확인합니다.
Minimum cycle time 1:	Pause before cycle (110): - v for 0 seconds	
Check timing	Start measurement OK	Cancel Help

프로토콜 작성: Plate layout

Layout 선택 → Sample 선택합니다. 우측 화면에서 시료가 담긴 Well을 선택 후 OK 선택합니다.

Luminescence - Endpoint													×
Basic Parameters Layout Cond	centrations	& Volume	es Shakir	ng									
Content: 1. Sample Blank Standard	96	1	2	3	4	5	6	7	8	9	10	11	12
Empty	Α	X1	X2	X3	×4	X5	X6	X7	X8	X9	X10	X11	X12
□ On	в	X13	X14	X15	×16	X17	×18	×19	X20	X21	X22	X23	×24
Index	С	X25	X26	X27	X28	X29	X30	X31	X32	X33	X34	X35	X36
Constant Increase	D	X37	X38	X39	X40	X41	X42	X43	X44	X45	X46	X47	X48
Replicates	E	X49	X50	X51	X52	X53	X54	X55	X56	X57	X58	X59	X60
Horizontal <u>V</u> ertical	F	X61	X62	X63	X64	X65	×66	X67	X68	X69	X70	X71	X72
Reading direction:	G	X73	X74	X75	X76	X77	X78	X79	×80	X81	X82	X83	×84
	H	X85	X86	X87	×88	X89	×90	X91	X92	X93	X94	X95	X96
									2				
Check timing Use enhanced	dynamic ra	ange				[Start mea	asurement		ж	Cance		Help

프로토콜 작성: 바로가기 아이콘 생성



- 1. 앞서 작성한 Protocol Name 선택합니다.
- Default focal height, EDR 선택합니다.
 ID1,2,3를 입력합니다. 후에 결과 확인시 추적이 용이합니다.
 Start measurement를 선택합니다.

프로토콜 작성: 시작

Image:	on	_	Stop	Barcod List	e MAR	RS Op Tes Results	en Last st Run E	emperature	Prime	g Pro	anage otocols tocols						
Int Masurement. Num ORL X Y stut Vesurement. Num ORL Y <t< th=""><th></th><th>FIte</th><th>sti Li</th><th>LUM pase Test</th><th>DLR</th><th>Nano DR</th><th>L F New</th><th>Button</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>		FIte	sti Li	LUM pase Test	DLR	Nano DR	L F New	Button									
A X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12 A X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12 A X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12 C X25 X26 X27 X28 X3 X31 X32 X33 X34 X35 X36 Q X37 X38 X39 X40 X41 X42 X43 X44 X45 X46 X47 X48 Q X37 X38 X39 X40 X41 X42 X43 X44 X45 X46 X47 X48 Q X37 X38 X59 X60 X61 X65 X66 X67 X68 X69 X60 X61 X68 X69 X60 X71 X72 Q X48 X62 X63 X64 X65 X66 <th>F</th> <th>Star ocus ar</th> <th>t Measurem nd Dynamic R</th> <th>ient - Nano I ange / Plate II</th> <th>DRL F Os Sample ID</th> <th>os / Dilution Fa</th> <th>ctors Crosst</th> <th>alk Determina</th> <th>tion</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>×</th> <th></th>	F	Star ocus ar	t Measurem nd Dynamic R	ient - Nano I ange / Plate II	DRL F Os Sample ID	os / Dilution Fa	ctors Crosst	alk Determina	tion						×		
96 1 2 3 4 5 6 7 9 9 10 11 12 A X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12 a X1 X12 X13 X14 X15 X16 X17 X18 X19 X20 X21 X22 X23 X24 c X25 X26 X27 X28 X29 X30 X31 X32 X33 X34 X35 X36 b X37 X38 X39 X40 X41 X42 X43 X44 X45 X46 X47 X48 c X49 X50 X51 X52 X53 X54 X55 X56 X57 X58 X59 X60 c X49 X50 X51 X52 X56 X66 X57 X58 X59 X60 g X61 X62 X63 X64 X65 X66 X67 X68 X69 X70 <th></th> <th>Cha</th> <th>nge <u>l</u>ayou</th> <th>t</th> <th></th> <th>Focus: Default focal height (11 mm) ~</th> <th></th>		Cha	nge <u>l</u> ayou	t											Focus: Default focal height (11 mm) ~		
A X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12 P X13 X14 X15 X16 X17 X18 X19 X20 X21 X22 X23 X24 C X25 X26 X27 X28 X29 X30 X31 X32 X33 X34 X35 X36 V X37 X38 X39 X40 X41 X42 X43 X44 X45 X46 X47 X48 V X37 X38 X39 X40 X41 X42 X45 X46 X47 X48 V X37 X38 X39 X40 X41 X45 X46 X47 X48 V X41 X42 X43 X44 X45 X46 X47 X48 V X61 X62 X63 X64 X65 X66 X67 X68 X69 X60 V X66 X67 X68 X69 X61 X62		96	1	2	3	4	5	6	7	8	9	10	11	12	Dynamic range: Enhanced dynamic range (EDR) V		
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프로토콜 작성: 시작과 결과 확인



- 1. 실시간 결과 확인할 수 있습니다.
- 2. 결과 측정 후, MARS 아이콘을 선택하여 결과를 확인할 수 있습니다.

CHAYON CHAYON Laboratories, Inc.

결과 엑셀 전환

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홈

삽입 페이지 레이아웃 수식 데이터

파일

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10)					
11	A10	Sample X9	1.788	1.498	1.492	1.323	1.03	/					
12	A11	Sample X9	1.007	1.425	1.413	1.293	1.1	5.3					
14	B10	Sample X10	1.012	1.420	1.4	1.297	1.25	0.16					
15	C10	Sample X11	1.693	1.394	1,413	1.557	1 12	5.47					
16	C10	Sample X11	1.685	1.457	1.421	1.3	1.15	3.47					
17	D10	Sample X12	2.03	1 616	1.443	1 464	1.03	6.05					
18	D11	Sample X12	1 711	1 442	1 448	1.304	0.96	5.53					
19	E10	Sample X13	1.694	1.435	1.445	1.343	0.9	3.65					
20	E11	Sample X13	1.758	1.481	1.48	1.38	1.01	4.04					
21	F10	Sample X14	1.675	1.418	1.422	1.274	0.97	5.76					
22	F11	Sample X14	1.611	1.386	1.413	1.292	0.78	3.75					
23	G10	Sample X15	1.751	1.461	1.485	1.323	0.85	5.51					
24	G11	Sample X15	1.616	1.385	1.388	1.259	0.97	5.02					
25	H10	Sample X16	1.632	1.405	1.377	1.289	1.31	4.66					
26	H11	Sample X16	1.631	1.381	1.405	1.267	0.82	4.54					
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1		Microplate	End point	Table En	d point	Protocol Inf	ormation	(+)					

검토

보기

결과 측정 후 파장 추가 분석



다른 PC에서 결과 분석

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