



detect and identify

Filter Data Sheet

Filter packages for Mithras/TriStar

BRET Package 39350

Specifically selected filters for BRET and BRET² (incl. emission filters 400nm, 515nm, 480nm, 530nm)

High efficiency BRET package 53431

Specifically selected filters for higher efficiency BRET (incl. emission filters 480nm and 530nm)

High efficiency BRET² package 53432

Specifically selected filters for higher efficiency BRET² (incl. emission filters 410nm and 515nm)

ChromaGlo™ package 43544

Specifically selected filters for ChromaGlo™ (incl. emission filters 510nm and 610nm)

ChromaGlo™ filters for Mithras red PMT

filter 510 nm **43541**
filter 650 nm **55133**

Filter packages for NightOWL

ChromaGlo™ package 54251

Specifically selected filters for ChromaGlo™ (incl. emission filters 510nm and 650nm)

Filter adapters

Adapter for 12.7 mm filters 42071-005

small aperture, 5 pieces

adapter for 12.7 mm filters 57194-005

for TriStar², 5 pieces

adapter for 15 mm filters 54666-005

for TriStar², 5 pieces

Filters UV-Abs./TRF-Exc.

Mithras LB 940

CWL	FWHM	Transm.	Diam.	ID No.
240	10	10	25.0	55598
260	10	10	25.0	55595
280	5	10	25.0	55593
340	26	75	25.0	54083

Filters Excitation/Absorbance

Mithras LB 940

TriStar² LB 942

Twinkle LB 970

CWL	FWHM	Transm.	Diam.	ID No.
340	10	70	15.0	40086
355	40	35	15.0	40270
360	10	90	15.0	47727
370	14	40	15.0	38051
380	10	50	15.0	40087
390	22	45	15.0	37993
405	10	35	12.7*	40598
405	10	40	15.0	40088
420	10	50	15.0	39452
430	10	60	15.0	39500
440	10	60	15.0	37994
450	10	30	12.7*	40599
450	10	60	15.0	39799
460	10	60	15.0	39800
470	10	60	15.0	39801
485	14	60	15.0	40271
492	10	30	12.7*	40600
500	10	70	15.0	39501
510	10	70	15.0	39453
520	10	70	15.0	39802
530	10	70	15.0	37996
540	10	70	15.0	39803
550	10	70	15.0	37997
560	10	70	15.0	37998
570	10	70	15.0	41024
578	10	70	15.0	39804
590	10	70	15.0	41025
600	10	70	15.0	40091
610	10	70	15.0	40092
620	10	30	12.7*	40601
630	10	70	15.0	40090
640	10	80	15.0	56689
650	10	70	15.0	37999
660	10	70	15.0	56690
670	10	80	15.0	56691
680	10	75	15.0	56692
690	10	70	15.0	46387
700	10	70	15.0	54079
720	10	75	15.0	54080
750	10	70	15.0	46742
977	7	70	15.0	55923

* use with small adapters (42071-005 or 57194-005)

** fluorescence excitation only applicable in Mithras with red PMT

*** remove IR-filter

**** only absorbance measurements

Emission
Mithras LB 940
TriStar² LB 942
Twinkle LB 970
NightSHADE LB 985

Excitation
NightOWL LB 983
NightSHADE LB 985

CWL	FWHM	Transm.	Diameter	ID No.
350	50	50	25.0	55140
400	70	60	25.0	39448
405	10	40	25.0	38049
410	80	75	25.0	53427
420	10	50	25.0	47730
425	40	70	25.0	54566
430	10	60	25.0	38470
440	20	70	25.0	58352
450	20	65	25.0	38537
450	10	60	25.0	38050
460	25	50	25.0	40272
470	10	60	25.0	39815
475	20	60	25.0	53183
480	20	60	25.0	39450
480	20	75	25.0	53425
495	10	70	25.0	39798
500	20	80	25.0	50410
505	20	70	25.0	38538
505	10	70	25.0	39454
510	40	75	25.0	40094
510	60	70	25.0	43541
510	10	65	25.0	37984
515	20	60	25.0	39449
515	40	80	25.0	53428
520	10	70	25.0	38836
530	20	70	25.0	38536
530	25	60	25.0	39451
535	25	60	25.0	40273
540	25	75	25.0	40506
540	40	75	25.0	53426
545	7.5	70	25.0	49783
550	longp	80	25.0	57154
550	20	70	25.0	40507
550	10	70	25.0	39796
560	10	65	25.0	37986
565	70	75	25.0	40991
570	8	65	25.0	37987
572	7.5	70	25.0	49784
580	10	75	25.0	37988
590	20	75	25.0	37989
600	shortp	90	25.0	59629
600	10	75	25.0	40095
610	longp	80	25.0	43542
610	10	75	25.0	40096
616	8.5	80	25.0	49779
620	10	70	25.0	47731
625	30	70	25.0	49246
630	20	80	25.0	50097
640	20	70	25.0	39422
642	6.5	80	25.0	49782

650*	60	75	25.0	55133
650	shortp	85	25.0	59628
650*	10	70	25.0	40098
665*	10	65	25.0	37990
665*	7.5	60	25.0	52544
680*	10	70	25.0	47844
700*	20	80	25.0	50475
700	shortp	85	25.0	50562
720*	20	80	25.0	49247
740*	30	80	25.0	50480
760*	20	75	25.0	54081
780*	20	75	25.0	54082
800*	20	75	25.0	52909
OD2		1	25.0	41937

emission of wavelengths > 650 nm only possible with Mithras red PMT models

Emission
NightOWL LB 983

CWL	FWHM	Transm.	Diameter	ID No.
440	20	70	50.0	51228
510	60	75	50.0	54248
520	10	65	50.0	39805
550	20	75	50.0	39806
570	20	80	50.0	39807
600	20	80	50.0	50477
605	55	80	50.0	46718
620	10	80	50.0	40540
640	20	80	50.0	55917
650	60	75	50.0	54249
655	20	80	50.0	51332
680	30	80	50.0	49180
700	20	80	50.0	50479
700	40	80	50.0	47879
720	20	80	50.0	55920
740	20	80	50.0	55921
760	20	80	50.0	55922
780	20	80	50.0	50476
790	40	85	50.0	49248
800	20	80	50.0	55924
820	30	80	50.0	50481
840	20	80	50.0	55926

Other Filters

Name	ID No.
Grey filter, OD 2, diam. 30 mm	25121
Blue filter, diam. 30 mm	14785

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