

ž Ÿ | € £ \$ • ¥ • | § " ©ª !

« ¬ -

[ ® ¯ ° • ]

 ± ‡ ^ %² • ³ ´ µ ¶ · ¸ ¹ º » ¼½º ¹ ¾¿ ÆÁÂ¹ ¾¿ ãäå , ÆÇÈÉÊ—Ë  
 ÆS100A9İ ¶Í

[ ‡ ^ %î ï ]

‡ ^ ÆÑ	Ò¶	‡ ^ ÆÑ	Ò¶
96ÓÔÕÖ„ ×Ø	1	96ÓÔÙÚ	4
ÛÜÝ	2	ÛÜÝ ÞßÀ	1à 20mL
Š á	1	â ã ä å Æ	1à 20mL
...† æÄÅ	1à 120çL	...† ÞßÄÅ	1à 12mL
...† æÄBÕPE-SAØ	1à 120çL	...† ÞßÄB	1à 12mL
è Æ	1à 10mL	é ê ë ÆÕ30à Ø	1à 20mL
š • > œ•	1		

[ ì í î ï ð ñ ‡ ^ ]

1¹ Lumi nex MAGPI Xòª Lumi nex 100óª Lumi nex

200óª ÆBi o-Radó, Bi o-Pl exòã ã ö Õõ ö ÷ š • ø ù ø @ ú , û ü ý í ...þ ý Ü Ø

2¹ Ž Æ Æ¶ Ä ÷ ñ

3¹ Þß Ýí EP .

4¹ Æ •

5¹ Š

6¹ è Ä ï ï ÷

7¹ 0.01mol /L ÕÆ1à Ø ä å (PBS)ª pH=7.0-7.2

8¹ ÷

9¹ Ü Ö ÷

[ ‡ ^ %ï ñ ¯ ]

1<sup>1</sup> ...† æÃ ÆBOñ%ÓÔ& | -201CæÇ2†^' 3| 41C& î • Í  
2<sup>1</sup> š• , ï †^ %~ 42†^ 5î " 6†^ #Û\$ %ï 78& Í  
( ) ~  
†^ %î Û9: ; <æ" =>î ? : â @š• Aš• , ï 42†^ %ööBC@=> , 1DEÎ š• FGÍ H  
YÍ - JKO%• ÅÏ Û\$ LÛæ&M-Î » âNO&PQµí Í

[ Û±ï RST& \_ ]

• , ~ / \* S | • , â Èï U• Û±BV7 32WJÆ41Cl XæY , 1,000àg ' 20â Z æ [ Å , \ : æ  
/ Å , 3 | -201CÆ-801C& æ ] ^ \_ ` abÍ  
• ° ~ • EDTAÆcdeL´ f^ RSÛ±æû / Û±BRS , ï 30â Z Î | 2-81C 1,000àg ' 15â Z æ [ Å ,  
\ : ...† æÆ / Å , 3 | -201CÆ-801C& æ ] ^ \_ ` abÍ  
¾ ÅÄÅ , ÆÇÈ—Û±~' 1,000àg ' 20â Z æ [ Å , \ : ...† æÆ / Å , 3 | -201CÆ-801C& æ  
] ^ \_ ` abÍ  
( ) ~  
1<sup>1</sup> OÅÛ±! ì g & æ41C& W| 1hæ-201C¥i | 1DEæ-801C¥i | 2DEÍ  
2<sup>1</sup> Û±j kæ• l mno , ...† • pæ• qæ• Û±¥r stqu...†Í  
3<sup>1</sup> Û±š• ø° äv! wxV7æ¥° yúšzbÁÍ  
4<sup>1</sup> { | | ¶...† Ò } æ~• €• š• • , ¥P• ° eL ±st...†Í

[ Lumi nex200 â ã ô ]

- 1. â ã f~ 50uLA
- 2. Æ• „ ...~ Š á MagPlex;
- 3. † Š á ¶ ~ 50† / ^ ;
- 4. MFI%~ Median.

[ †^ Ûî ]

1<sup>1</sup> š• ø/ ï †^ pÛ±äv! wxV7Õ18-251CØæŠp< †^ %B-ÆJ KÎ ¥• š• æ' ž [ j ±  
@†> ï ï Û9p†^ æû / 42ï Û9ñ†^ " Žµ9• & Í  
2<sup>1</sup> ÛÛÝ(a• Ý)~' #ÛÛÝy' ÛÛÝpBÅ0.5mLæ" ý , V7" 3 | • 10â Z æ - J —~™Õ] ^ š  
> ØæÇé8L20.0ng/mL Ûî 7DPBÛÛÝï EP æ' DEP Èy' 300ceLi ÛÛÝpBÅæŠ• %ž  
@Ý pB; 20.0ng/mL, 5.0ng/mL, 1.25ng/mL, 0.31ng/mL, 0.08ng/mL, 0.02ng/mL, 0.0ng/mLæÛÛÝpB  
Å(0ng/mL)ϕ£eLÖ„ ÓÍ L&æ=>• p < æ' @=>' š• ¥ï ÛÛÝæÃÍ

item	1	2	3	4	5	6	7	Tube
S100A9	20.0	5.0	1.25	0.31	0.08	0.02	0	ng/mL

3<sup>1</sup> ...† æÃAñ...† æÃB~ Detection A ñDetection BBš• ø' • | Š " ©Æª « ' - - æOš®~ B  
° Æ#" ï Æ ±f+ ²Í š• øâ³ O...† pBÅAÆB 1:100pB (Š~ 10ceL...† æÃA/990ceL...† pB  
ÅA)æ´ âµ½æpBø¶} ®• , ¹ ýí ' @=> ï ï †¶° » (100ceL/Ó)æ¼° » J° ° » 0.1-0.  
2mLÍ  
4<sup>1</sup> éêëÃ~ 580mL Æ • y' 20mLêëÃÕ30à ØpBx 600mLx ½e Æé8Í  
( ) ~  
1<sup>1</sup> ÛÛÝï pB¥• ϕ£BÖËstÍ

2<sup>1</sup> ŪŪŸ' | §• ø15â ZÎ ° » Í < ŪŪŸ¾• š• -@Í  
3<sup>1</sup> ŪŪŸ' ...†æĀĀ½eĀ' ...†æĀĀ½eĀ' š• É° ĩ ÞBĀ° » ɹÞBĀɹ• μ• Í • Ā¿ —ĀĀ  
' âμ½ɹ] ^š> Í L&ɹ=>• pī ŪŪ< ' š• Ćŋ ɹūŷŪĆŋ Ā÷Í ' ž} ĩ ĩ ŋĀŌ°  
» ɹ- ŋɹĀš• Ćŋ° » ĩ Ā" ŌŠ [ ...†æĀĀJ ɹ-@ɹĀW| 10œLŌɹŌ ] ^Āĭ é8ÆÇÍ  
4<sup>1</sup> ' ÈÉ` š• ÈÈÞBI ĩ ŪŪŸ' ...†æĀĀ½eĀp...†æĀĀ½eĀÍ  
5<sup>1</sup> êëĀŌ30xØÈŠ • ĩ āj ɹ' • 7Í xV7ɹ—μ½ɹx+• ĩ FUæĀĪ st° » Í  
6<sup>1</sup> ‡^%ĒĪ ā ‡^L ĀɹĐŊĭ ° 3ĭ ½eĀ, š• ɹB° 3I ÒÈ: • • LÓŌ MŋÇÆ MŌŌɹ  
Ōñ=>È • xØŪŌ8ÇɹĀĭ =>• pɹŪŌɹŪxFUŪÆÍ ' š• ³ ° 3Í

[ Ū±- - ]

1<sup>1</sup> ±ŪŸ¾Þ ‡^%±Bà á ɹɹÞ• š• < ‡^% Āĭ ĩ ±â xà á ɹ' š• āš• ø' âăă+ ±ĭ  
: • š• ŋ ɹ@æ' çĭ ±Í  
2<sup>1</sup> =>ø° • @† ±Èè†—é8Í éé8ɹBŪŪèèĭ ĩ í Í J ɹ• Ŋĭ ĩ ŌμÇðμ=>ĭ Ōñ ÝP  
BŸŌÍ Šp ÝÈè†—é8I òÆI óɹ' Þ ±Ū" éĭ ÞBÆéŌÍ ±ÞBĭ • ÞBSÍ  
3<sup>1</sup> ō ... ±ɹŌĬ B> œ• ÷ ±z È ɹŏöst®=>>ɹÇ < ɹŪ() æ ±Í  
4<sup>1</sup> š• øùĀĀĀ» ĩ ĩ » ¼½° Æ¾¿ ù[ Ā: • ĩ ú| ŪŪøù—Mĭ ý' Þŷ=>• p ÇÍ  
5<sup>1</sup> ō ±L¾¿ ĀĀĀ, ɹ• L< „ ±• • d ɹŠ~¾¿ 1¾¿ Ōŋ' R JK ɹ Ō: • B  
...†ɹj ĩ Í  
6<sup>1</sup> ŪŪ Yf„ ÆÉ»f„ ɹŏ ñ É»f„ ɹ: • • LT±HY š• ĩ ...†' ñ ' ɹ °  
ɹ, ɹx...†j Í  
7<sup>1</sup> ōöš• ɹ ±ɹ& JKI : • ĩ • f„ ĀÆ < , Þŷ=>• p ÇÍ

[ e ]

1<sup>1</sup> / =>Ōĭ ' ŌÍ y' 200ulâăăăĀ• Ō® ɹ , B ŪŌ ÷ĀV7 10â Z ɹz , §• ŌÍ  
Ā ɹ\ : • | y eÍ  
2<sup>1</sup> y ~ â³ ðŪŪŌ' è† ÝŌ' Ō„ ŌÍ ðŪŪŌ7Ōɹž@y' 100œLɹ— é8ĭ ŪŪŸŌ ‡^ Ūĭ 2  
ŌÍ Ō„ Óy100œLŪŪŸÞBĀŌ ‡^ Ūĭ « Ō, - Øɹ2Óyè† ÝŌÆÞB, ĩ ÝŌ100œ  
Lɹ' Óy10ulŠá ɹ ŪŌyĀŪŪɹ371Ō ŪŌ ÷7Í 1.5WJ ɹ ™ ð3L800rpm ɹ 2-4mm  
ɹ ! Šá± Í  
3<sup>1</sup> ĀŠ ɹ2â Z, " Ā ɹŠ &#ĭ ©§• ɹɹ• èèÍ  
4<sup>1</sup> ' Óy...†æĀĀ½eĀ100œLŌ§• ø° » Øɹ ŪŌŪŪɹ371Ō ŪŌ ÷7Í 1WJ ɹ ™ ð3  
L800rpm ɹ 2-4mm ɹ ! Šá± Í  
5<sup>1</sup> ĀŠ ɹ2â Z, " Ā ɹ' Ó• 200œLĭ èèĀèèɹ\$> 1-2â Z ɹ" ŌÍ Ā Í É` èŌ3@  
Í Ō, -@èè, ɹ [Æ%j 42ĭ èèăăĀɹ/ ŪŌ%&B ' Āɹ/(æBŌÍ ĩ Ā Ūĭ •  
Í qI Ò) : ĩ ™Š èŌ\* +Fĭ Í  
6<sup>1</sup> , Š ɹ' Óy...†æĀĀ½eĀŌ§• ø° » Ø100œLɹ ŪŌŪŪɹ371Ō ŪŌ ÷730â Z ɹ ™  
ð3L800rpm ɹ 2-4mm ɹ ! Šá± Í  
7<sup>1</sup> ĀŠ ɹ2â Z, " Ā ɹ' Ó• 200œLĭ èèĀèèɹ\$> 1-2â Z ɹ" ŌÍ Ā Í èŌ3@ɹĀ  
" - 5Í  
8<sup>1</sup> , Š ɹ' ÓyèĀ150œLɹ 2â Z ɹšĆ• - . / ɹ\ : Ā\* ŌŌÍ  
( ) ~  
1<sup>1</sup> ‡^ Ūĭ ~ Ūĭ -@=> ĩ Āĭ Ū9ɹÇÈĭ : 1ĆŌŌĀ; ©ɹg ɹ" 6> œ• Ā?& ɹŌĭ ©@  
š• Í

2' y ~ => eĚ' š• -@< ĭ 23 ꝑ ] ^ ŌŌÍ y J ( ) ¥Ã 4> H- ꝑ / Ýy | ŪŌ² Ĩ ꝑ - ¶ ¥5ñÓ° ꝑ —6™µ½Í T\_° ‡ ^ y' - ꝑ y | ÒĚ « -DÓTo, -DÓy JKK7- ¶ WŌ-89» B10âZOÍ Øꝑ Šp: | ꝑ / l pÿ¥- ĭ ; @7Í < JKꝑ 1, œ=> mn+ t ¶ % ĭ Ū Ō< ñĚ` < Í L? † % ĭ Ū Ō< ꝑ €• ð3` Óst => Í

3' 7Í ~ L ! Ý @ꝑ => J' / yÅ" ÆŪŪ ĭ ŪŌ3 | % ĭ ꝑ Ō ] ^ Ā @ꝑ ě Ō, ° - . st © e ꝑ ABJ CN° ] ^ ŪŌ- | • D ꝑ - J ° EFGHI µ ĭ 7Í JKp78Í

4' êĚ ~ ' âěě JKĚĀ ꝑ B' @ěě ĩ ÒĚ ꝑ NĀ / ěě ĀFUŞ • Í Špš • ĭ ™ě Ō\* ꝑ' BLMš • , Ĩ • | NO=> I ÒĚÍ

5' Šp=> VÍ 8ó | 60% ꝑ €• š• y ÷ ù ò 8 PÍ

[ => - ]

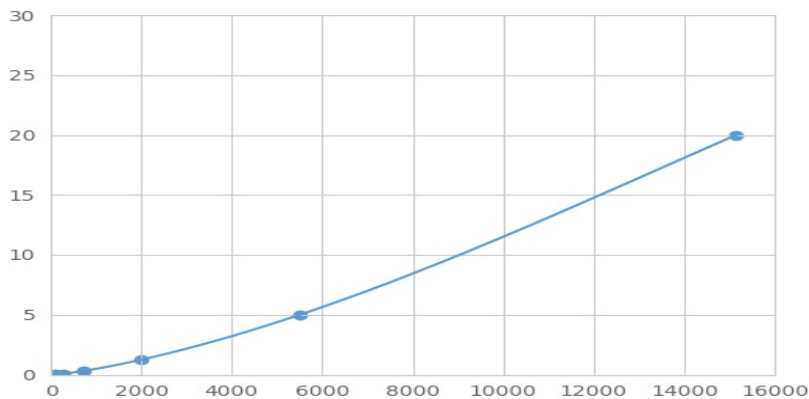
/S100A9' ö x | Š< Ě• QRꝑ » ; SÉT ꝑ UE• Ěâ³ y' ŪŪÝÆŪ± ꝑ ÇĚS100A9TVĚ | SÉ T Ā ĭ ' • , ꝑ Y, y' —dø ĭ S100A9' ꝑ B/ • , ĭ —dø' ě Ō, ꝑ y' PEŪW ĭ Xpd ꝑ PE×Y@, ꝑ ¶ } MFI% Ō Median Fluorescence Intensity Ø ĭ | Wp ÝĚ ĭ S100A9 ě 8- NĚĚÍ • Lumin exâãô†µꝑ, 1 Ýé8Í

[ \_ 1 ]

ZŪŪÝñ ±MFI%&, Ō,, ÓMFI%, e• Ō [ \ • Øꝑ Šð3` Óꝑ ] ° [ ÇP! %, 1 Í ŌŪŪÝ ĭ é8 L ^ \_ ŪŌÆPŌ\_ ŪØ ꝑ MFI% L` \_ ŪŌÆPŌ\_ ŪØ ꝑ a j ŪŪěě ŌoñĀŌŌ° žbcĀŌ, 1 ĭ R2% +µ ꝑ OR2% def | 1LýØÍ €• š• gh» ěěě ĩ • st âã ꝑ Šcurve expert 1.30 ꝑ ¶ } ÝMFI% ꝑ úŪŪěě j j Ě° ĭ é8 ꝑ kOPBŸŌAÆ• ŪŪ— ĭ é8 TMFI%, 1 j ŪŪěě ĭ bcĀŌŌ ꝑ / Ý ĭ MFI% ĩ ' ĀŌŌ ꝑ, 1 j Ýé8 ꝑ kOPBŸŌ ꝑ \ L Ý ĭ =¼é8Í

[ m...Ō } ]

L?n | , 1 ꝑ - é8LÍ ¶, MFI%L• ¶ ꝑ ~ • a• J5R• ŪŪÝ ĭ MFI%eL` \_ ŪŌXoØ ꝑ ŪŪ Ý ĭ é8L ^ \_ ŪŌŸoØÍ -JL? ‡ > • p ĭ Çp< ꝑ • ĚŪÝ ĭ P qŌ} , J PŌ% ĩ €• š• PŌ% Ō r ŪŪěě • Í ú | => e9• ĭ ¥- ŌŠ ěā¹ Āst¹ ěŌstp789• Ø ꝑ ŪŪěě ĭ MFI% ĩ ÇuÍ ùÝ ĭ ŪŪěě žŸvã ꝑ => ā ĭ Ā ¶ } ĭ Ě ĭ => ør ŪŪěě ĭ



(S100€• , f „ A9)... † ‡ ^ % ŪŪěě

[ ...† ĭ ĭ ]

0.02-20ng/mL.

[ oó...tw ]

q%L20DÖ,, ÝÕ\ÛÜÝÞßÀØ†µĩ P! %y ÝÛÜÇ P° ĩ é8Í

[ õu< ]

±‡^%• | ...†S100A9æË...†TÇÈÉx—Myœ=z { \_° Í  
ú| | +stñ ±+} ĩ w» æ¥: • Fj ÉÊÆÉx—Mz { \_° ...†æ• q±‡^% : • T È...  
†ĩ ÇÈ—M z { \_° Í

[ Âg8 ]

- Âg8• Ý†µ%ĩ u~ÒCVQ%Í CVÕ%Ø = SD/meanà 100
- Í Ç~ [ -• @‡^%Pó¹ È¹ ò%µ% ±stµ¶]...†æ' € ±V• †µ20
- @æâ³ ,¹ ¥-é8 ±ĩ P! %ñSD%Í
- KÇ~ , [ 3D¥-• @ĩ ‡^%â³ Pó¹ È¹ ò%µ% ±stµ¶]†µæ' D ±š• - -‡^%É` †µ8@æâ³ ,¹ ¥-é8 ±ĩ P! %ñSD%Í
- Í Ç~ CV<10%
- KÇ~ CV<12%

[ Qµ< ]

È†µæ‡^%B - Í fî " €• 78& æ„ < ó /W| 5%Í  
L...Wj ĩ • dP‡^%†‡ø, ...†%ĩ mnæ=>Vĩ ^%9• ĩ - ¶ &# -ÿ æŠÇP=>VÍ 78Í  
8ñ7Í 9• Í Ç@ú- - =>< +st e: ...Æ• LÆÇÍ

[ =>ŽÒ ]

- 1¹ =>øÛÜÝ¹ ‡^ñ ±Ûĩ A
- 2¹ y ÕÛÜÝÆ ±Ø100œLæyŠá æ371 C ÛÔ ÷• Í 1.5WJ A
- 3¹ Š Š• æy...†æÃA100œLæ371 C ÛÔ ÷• Í 1WJ A
- 4¹ Š èÔ3@A
- 5¹ y...†æÃB100œLæ371 C ™• Í 30â Z A
- 6¹ Š èÔ3@A
- 7¹ yèÃ150œLæ 2â Z , OÒÍ

[ >œ ]

- 1¹ ú| k 9• ñ• ùst P' ¥• Þÿ' " ùÿĩ " stURĩ • µTâã æ±HÝ: • B-  
µĩ M¶st—Í
- 2¹ o~ ĩ =>• pT‡^ ĩ < ¹ =>ãĩ ÉÊ eOñ=>^%g™ÉÊ æ' fî Ûĩ ´ çĩ Û±ĩ €Í
- 3¹ ¥-• @ĩ - -HÝ: • l ÆŠÇ³ æŠ~ ...†w¹ >œ8æ' ž} ‡^%Ō¹ >œ• st=> eæ• žÿ  
• - >œ• ževäÍ
- 4¹ ±‡^%° ‡^ĩ ĩ ° š• æ¥• µ• Çj » Å" ĩ HÝÍ ¾ EFGH±‡^%ĩ =>>œÇl £+o  
ñĩ ...†• pÍ
- 5¹ B ñ7Í l ÒÈ] ^/‡^ æ¥B| ŠÉÍ ‡^#" ĩ " " O ! @pÆ—ÕÖæ• Lf„ Á  
ĩ • /pÿ†%¥ÛOÍ

- 6<sup>1</sup> © ª ï « ÖÖÖË: • l Æš —MæqLNKk —æ¥l Þ=>• pÅj ABmnÍ ÛÔBš •  
 J 1 ö- ®¯ [j æ' Èùø[j Í
- 7<sup>1</sup> ú| eã¥LM<sup>1</sup> e° ÆÆÛÆ, • OÖôÖ± N : • þÿÛÆ• pī H-Í =>ø' ² ¾³ O> æ  
 • ù´ †ô÷Í
- 8<sup>1</sup> B ±»î Oñ eī ' DI ÒËī øN: • þÿ¥-ī =>• pæ OL?ùò=>• pī : É` < æ=  
 >ī ' — eNì ÆEF9»Í
- 9<sup>1</sup> †^%Bj μø! Èl EFM...æ¶ú| ². 9• ñZ=>V9• Çuæ: • l Åj =>• pTj μ• p¥-  
 ÿÆ¥- • @†^%• KÇ, | ī Í
- 10<sup>1</sup> ±†^% TÇj μ¹ — „ †^%Æ¥-Ä" ...†-¬° ī —ī HÝÛÞ æ O¥», ...†• p¥-ÿī  
 Í
- 11<sup>1</sup> • | »î †^%Ë´ ī ^¼ ½KLE»f„ æ¶ú| î É»f„ , [ī ¾Æ¹ Qç ~À¹ ÓøÄO  
 Z ¥-æ O~• y" &æ< †^%: • | Çj ÜÝÉ»f„ ī ...† æ½K~• ) ¥ööš• †^%...†É  
 »f„ Í
- 12<sup>1</sup> ' ®Á ÝËè†-ī é8æÆãð, ®=>Oμ Ý...†é8Í Æ ī - - : O ! ±Ëè...-ī ¶i  
 j †^%...†ī í Í
- 13<sup>1</sup> < †^%: • ¥" • | —ü=>±ß < ¥Oμī ðÄ=> Ýī ...† æÄŠæ{ • Å, => Í
- 14<sup>1</sup> ± e> æ- " • | 48T†^%Í
- 15<sup>1</sup> < †^%ž ÝÇEš • æŠ/Ç• | S" ©ª ÆABCÇj • Ææ~ÜÝ/¥Þ• qH-ī ÇÈàá æÉ¥É  
 ÈAB" ì áAÍ

[ ÇÈÁÍ ]

ÇÈ	: • •	ÁÍ ÄÍ
ÛÜêëÇ	ÛÜÝÛī ¥NO	s t NOī ÛÜÝÐ8Þß
	[ ñêë¥´ â	´ âī [ ñêë
	Ã¥ÃO	...j þÿN Ã÷
Ãg8ó	Šáêë¥´ â	" > æ• Ã?´ â èëp\$>
	μ½¥´ âp [ †^¥ç	´ âμ½p [ †^
	É` Ñ• 1ī ÷pÛÛ	š• y ÷ÃÒÓ¥ī ¹ š• ¥ī ī ÷pÛÛ
	y ¥ÃO	...j þÿN Ã÷
MFÍ%ó	' Óyī †^¶¥ÃO	ÿN Ã÷æÃOy' †^
	7Í JK¥NO	&æ´ çī 7Í JK
	7Í 78¥NO	†^ ÃPwxV7ú&æÜOī 7 Í 78
	PEÛW—°	ÒÓ†^
	PEÛW—ÞßÝÒ¥Þ	" 6> æ• => e
	i j OÒJ KOÒ	B> æ• €• ī OÒJ KÍ OÒ

± %	¥NOi ± ÄO	NO ± αš • ¥ ±st =>
	¥NOi ± * Sp - - Ä"	R[ NOi ± * Sp - - Ä"
	è † —MB ± È Ì ¶ ó	š • ¥ ± α É ` =>