

LMB070Eq 96T

€•, f„ (TPS)... † ‡ ^ %  
 (Š< Æ• Lumi nexŽ• • ' ' " )  
 „ • \_ \_ ~™  
 Š• > œ•

ž Ÿ | € £ š • ¤ ¥ • | § “ ©ª !

« - -

[ ® ¯ ° • ]

± ‡ ^ %² • ³ ´ µ ¶ · ¸ ¹ º » ¼½º ¹ ¾¿ ÄÅÄ¹ ¾¿ ÄÄÅ, ÆÇÈÉÊ— —Ä  
 Ë Ì Í Î Ï Ñ Ò Ó

[ ‡ ^ %î ĩ ]

‡ ^ ðÑ	Ò¶	‡ ^ ðÑ	Ò¶
96ÓÔÕÖf x Ø	1	96ÓÔÙÚ	4
ÛÜÝ	2	ÛÜÝ Þ ß Ä	1à 20mL
Š á	1	â ã ä å Ä	1à 20mL
... † æ ÄÄ	1à 120çL	... † Þ ß ÄÄ	1à 12mL
... † æ Ä Æ Æ Æ Æ Æ SAØ	1à 120çL	... † Þ ß Ä Æ	1à 12mL
è Ä	1à 10mL	é ê ë Ä Æ 30à Ø	1à 20mL
š • > œ•	1		

[ ì í î ï ð ñ ‡ ^ ]

- 1¹ Lumi nex MAGPI Xò ¤ Lumi nex 100ó ¤ Lumi nex
- 200ó ¤ Æ Bi o-Radò, Bi o-Pl exò ä ã ô õ ö ø ÷ š • ø ù ø @ ú, û ü ý í ... þ ÿ Ü Ø
- 2¹ Ž Æ Æ ¶ Ä ÷ ñ
- 3¹ Þ ß Ý ï EP .
- 4¹ Æ •
- 5¹ Š
- 6¹ é Ä ĩ ĩ ÷
- 7¹ 0.01mol /L Æ Ä Æ Æ ä å (PBS) ¤ pH=7.0-7.2
- 8¹ ÷
- 9¹ „ Ü Ö ÷

[ ‡ ^ %ï ñ - ]

1<sup>1</sup> ...t æÃB/ ñ%ÓÔ% | -200CÇ1†^ &2| 40C% î • Í  
 2<sup>1</sup> š• +i †^ %~ 31†^ 4i ! 5†^ " Û# \$i 67% Í  
 ' ( ~  
 †^ %î „ Û89: ; ð! <=i >9â ?š• @š• +i 31†^ %öAB? <=+1CDÍ š• EFÍ G  
 ÝH- I J /%• Åi Û#KÜ%L-Î » âMN%OPµi Í

[ Û±i QRS% \_ ]

• „ ~ . ) R| • „ â Èi T• Û±AU6 22VI Æ4OCHWÇX+1,000àg ' 20âYÇZÅ„ [ 9Ç  
 . Å„ 2| -200CÆ-800C% Ç\ ] ^\_` aÍ  
 • ° ~ • EDTAÆbcdK´ e^ QRÛ±ÇÛ. Û±AQR+i 30âYÍ | 2-80C 1,000àg ' 15âYÇZÅ„  
 [ 9...t ÇÆ. Å„ 2| -200CÆ-800C% Ç\ ] ^\_` aÍ  
 ¾¿ ÅÅÅ„ ÆÇÈ—Û±~ &1,000àg ' 20âYÇZÅ„ [ 9...t ÇÆ. Å„ 2| -200CÆ-800C% Ç  
 \ ] ^\_` aÍ  
 ' ( ~  
 1<sup>1</sup> /ÅÛ± ì f % Ç40C% V| 1gÇ-200C¥hH1CDÇ-800C¥hH2CDÍ  
 2<sup>1</sup> Û±i j æ• kl mn+...topÇ• qæ• Û±¥rstqu...tÍ  
 3<sup>1</sup> Û±š• ø° äv wxU6Ç¥° yúšzaÁÍ  
 4<sup>1</sup> { | | ¶...t Ò} Ç~• €• š• „ , ¥O• ° dK ±st...tÍ

[ Lumi nex200 â ã ô ]

1. â ã f~ 50uL@
2. Ç• €„ ~ Šá MagPlex;
3. ...Šá ¶~ 50† /†;
4. MFI ^ ~ Median.

[ †^ Ûi ]

1<sup>1</sup> š• ø. i †^ pÛ±äv wxU6Õ18-250CØÇ%pŠ†^ %A- < I JÍ ¥Çš• Ç&ž Zi ±  
 ?†= ì i „ Û8p†^ ÇÛ. 31i „ Û8ñ†^ ! • µ8Ž% Í  
 2<sup>1</sup> ÛÛÝ( • Ý)~ • " ÛÛÝy' ÛÛÝpBÃ0.5mLÇ' ý+U6" 2| " 10âYÇ• I — — — Õ\ ] ™  
 šØÇÇé 7K40.0ng/mLÍ Ûi 7CPBÛÛÝi EP Ç• CEP Èy' 300> Li ÛÛÝpBÃÇ%œ \$•  
 ?žÝpB 40.0ng/mL, 10.0ng/mL, 2.5ng/mL, 0.62ng/mL, 0.16ng/mL, 0.04ng/mL, 0.01ng/mLÇ ÛÛÝp  
 BÃ(0ng/mL)j ÇdKÖfÓÍ K%E<=op < Ç• ? <=&š• Çi ÛÛÝæÃÍ

item	1	2	3	4	5	6	7	Tube
TPS	40.0	10.0	2.5	0.62	0.16	0.04	0	ng/mL

3<sup>1</sup> ...t æÃAñ...t æÃB~ Detection A ñDetection BAš• ø&• ¥| Š" Æ©<sup>a</sup> ' « - Ç / š - ®A  
 - Æ" ' i Å ° f\* ±Í Š• øâ² / ...t pBÃAÆB 1:100pB (%~ 10> L...t æÃA/990> L...t pB  
 ÅA)Ç³ â´ ½ÇpBøµ} ®¶• „ ýi • ? <= ì i ...¶<sup>1</sup> ° (100> L/Ó)Ç<»<sup>1</sup> ° | ° 1° 0.1-0.  
 2mLÍ  
 4<sup>1</sup> éêëÃ~ 580mL Æ • y' 20mLêëÃÕ30à ØpBx 600mLx ¼dÃé 7Í  
 ' ( ~  
 1<sup>1</sup> ÛÛÝi pB¥Çj ÇAÕËstÍ

2<sup>1</sup> ŪŪÝ & | § • ø15â YÎ 1 ° Í ŠŪŪÝ ½Æš • -?Í  
3<sup>1</sup> ŪŪÝ 1 ...†æĀĀ¼dĀ 1 ...†æĀB¼dĀ&š • É ° ĩ ÞBĀ 1 ° æÞBĀÆŒ´ • Í • Ā¾- - ĵ Ā  
3 ā´ ½æ\ ] ™šÍ K%E<=opī ŪN< &š • Œŋ æüÿŪŒŋ Ā÷Í &• } ĩ ĩ ŋĀN 1  
° æ, ŋÆĀš • Œŋ 1 ° ĩ Ā" Ō% Z...†æĀAI æ-?ÆĀV | 10> LØæ/\ ] Ā é7ĀÆÍ  
4<sup>1</sup> &ÇÈ\_š • ÉÉÞBHİ ŪŪÝ 1 ...†æĀA¼dĀp...†æĀB¼dĀÍ  
5<sup>1</sup> êĕĀŌ30xØĒ% oĒĕi æ&ŋ6] xU6æ--´ ½æx\* oĒETæĀÍ st 1 ° Í  
6<sup>1</sup> †^%ĒĪ ā†^K ĀæĪ Ði 1 2 ¼dĀ+š • æA 1 2HÑĒ9Œ • KÒÓ LŋÆÆ LŌŌæ  
/ñ<=Ē • ÖxØÓ7ÆæĀ <=opÆŪNæÛxETŪĀÍ &š • 3 1 2Í

[ Ū±« - ]

1<sup>1</sup> ±ŪŪ½Ÿ†^%±ÞBà æÆŸ • š • Š†^% Ā ĩ ±áÖBà æ&š • âš • ø³āāā\* ±İ  
9Œš • ŋ æ@â³ æi ±Í  
2<sup>1</sup> <=ø° ŋ@† ±Ēç†—é7Í èé7ÆAŪŪéēī ēī Í I æ • Ðí ĩ NµÇī µ<=ī nō ŸP  
BžŌÍ %p ŸĒç†—é7HñÆHòæ&Ÿ ±ü" èī ÞBÆéóÍ ±ÞBì • ÞBSÍ  
3<sup>1</sup> ô ... ±ÆōĪ A> œ • ö ±zĒæōöst@<==Ēç < æü' (ā ±Í  
4<sup>1</sup> š • ÷øĀĀĀ° ĩ ĩ » ¼½° Ē¾ ĵ ZĀ9Œkū | úū÷ø—Lī ū' ýþ<=opÿĒÍ  
5<sup>1</sup> ô ±K¾ ĀĀĀ, æ • KŠ€ ± • • c æ%~¾ 1¾ ĵ Ōŋ 1 Q I J æ /9Œ A  
...†Æi ĩ Í  
6<sup>1</sup> úū X, fÆĒ», fæō ñ Ē», fæ9Œ • KS±GŸ š • ĩ ...†' ñ ' Æ 1  
æ, Æx...†i Í  
7<sup>1</sup> ööš • æ ±æ% I J H 9Œk • , f ĀÆ < , ýþ<=opÿĒÍ

[ d ]

1<sup>1</sup> . <=Ōi • ÓÍ y' 200ulāāāāĀ • /@ æ +A, ŪŌ ÷ĀU6 10â Yæz + | • ÓÍ  
Ā æ[9 • | y dÍ  
2<sup>1</sup> y ~ ā² ðŪŪÓ' ç† ŸÓ' ŌfÓÍ ðŪŪÓ7Óæ • ?y' 100> LŸ • é7ī ŪŪÝŌ †^ Ūî 2  
ŌÍ ŌfÓy 100> LŪŪÝÞBĀŌ †^ Ūî « n+- Øæ1Óyç† ŸŌÆÞB+i ŸØ100>  
Læ • Óy 10ul Šá æ, ŪŌyĀŪŪæ37Ō, ŪŌ ÷6] 1.5VI æ ~ ð2K800rpmæ 2-4mm  
æ Šá° Í  
3<sup>1</sup> ĀŠ æ2â Y+! Ā æš %" ĩ " | • æŸ • êĕÍ  
4<sup>1</sup> • Óy ...†æĀĀ¼dĀ100> LŌš • ø¹ ° Øæ, ŪŌŪŪæ37Ō, ŪŌ ÷6] 1VI æ ~ ð2  
K800rpmæ 2-4mmæ Šá° Í  
5<sup>1</sup> ĀŠ æ2â Y+! Ā æ • Ó • 200> Lī êĕĀêĕæ#š1-2â Yæ! ÓÍ Ā Í Ē\_eŌ3?  
Í n+-?êĕ+æ ZÆ\$İ 31ī êĕāāĀæ. „ ŪŌ\$%A &Āæ. ' āAÓÍ ĩ Ā TĪ •  
Í qHÑ(9ī ~ Š ēŌ) \* E Í  
6<sup>1</sup> +Š æ • Óy ...†æĀB¼dĀŌš • ø¹ ° Ø100> Læ, ŪŌŪŪæ37Ō, ŪŌ ÷630â Yæ ~  
ð2K800rpmæ 2-4mmæ Šá° Í  
7<sup>1</sup> ĀŠ æ2â Y+! Ā æ • Ó • 200> Lī êĕĀêĕæ#š1-2â Yæ! ÓÍ Ā Í ēŌ3? æĀ  
" • 5Í  
8<sup>1</sup> +Š æ • Óy èĀ150> Læ 2â YæšŒ • , - . æ[9Ā) /ŌÍ  
' (~  
1<sup>1</sup> †^ Ūî ~ Ūî -?<= ĩ Āī „ Ū8æÇÈī 9ŌŒÓŌĀ: " æf æ! 5> œ • Ā>% æ/î " ?  
š • Í

2<sup>1</sup> y ~ <= dĚ&š• ĩ?< ĩ 12 ǫ\] ŌŌÍ y I' ( ¥Â 3šG- ǫ. Ýy| „ ŪŌ±Ī  
 ǫ, ¶¥4ñÓ- ǫ--5~ ´ ½Í S^° ‡^ y' ĩ ǫy HÑĚ« ĩCÓSn+ ĩCÓy I J J 6,  
 ¶VŌ-78° A10âY/Ī Øǫ%p9| ǫ. k ý p ¥• ĩ : @ 6Ī ; I J ǫO, œ<=I m\* t ¶^ ĩ Ū  
 N< ñĚ\_< Í K> t ^ ĩ ŪN< ǫ€• ð2\_Ōst<=Í

3<sup>1</sup> 6Ī ~ K Ý ? ǫ<=I &. yÁ' ÆŪŪ ĩ „ ŪŌ2| %Ī ǫ/\] Â ? ǫēŌ+° , - st  
 .. d ǫ@AI BM° \] „ ŪŌ« | • C ǫ• I ° DEFGHµ ĩ 6Ī I J p 67Í

4<sup>1</sup> êë~ ³ âêëI J ĚÂ ǫA• ? êëHÑĚ ǫMÂ. êëÂĚT| • Í %pš• ĩ ~ êŌ) ǫ&AKLš•  
 +Í • | MN<=HÑĚÍ

5<sup>1</sup> %p<=UĪ 7ò| 60%ǫ€• š• y ÷ ùñ 7 OÍ

[ <= \_ ]

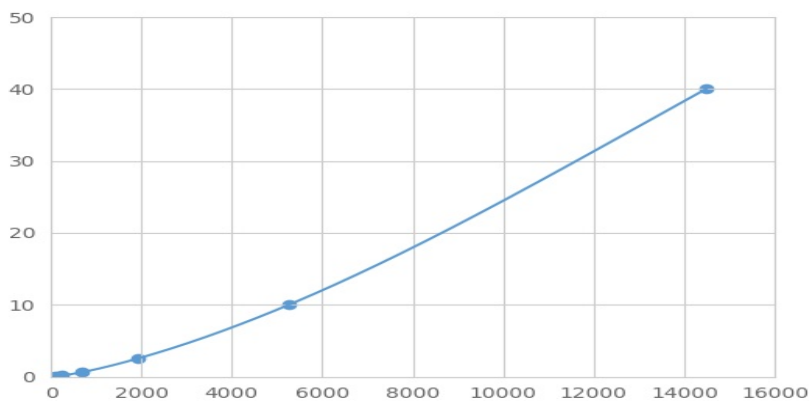
. TPS´ õx| Š< Ě• PQǫ° RÉŠ ǫTĚ• Ěâ² y' ŪŪÝÆŪ± ǫÇĚTPSSUϕ| RÉŠ Â  
 ĩ´ oVǫX+y' --c ÷ ĩ TPS´ ǫA. oV ĩ --c ÷ ´ êŌ+ǫy' PEŪW ĩ Xp c ǫPE×Y?  
 + ǫµ} MFI^ ŌMedian Fluorescence IntensityØ ĩ | Vp ÝĚ ĩ TPSé 7, MÉĚÍ • Luminexâ ã ô t µ  
 ǫ. ŷ Ýé 7Í

[ . \_ ]

ZŪŪÝñ ±MFI^ %+ŌfŌMFI^ +dœŌ[ \œØǫ%ð2\_Ōǫ] ° ZÇŌ ^ . ŷ Í / ŪŪÝ ĩ é 7  
 K^\_ŪŌÆÝŌ\_ŪØǫMFI^ K` \_ŪŌÆÝŌ\_ŪØǫai ŪŪéêŌnðĂÑN° • bcĂÑ. ŷ ĩ R2^  
 \* µǫ/R2^ def | 1KýØÍ €• š• gh° déêi Žst âã ǫ%curve expert 1.30ǫµ} ÝMFI^ ǫ  
 ùŪŪéêj ĩ É° ĩ é 7 ǫk / pBž Ō@Æ• ŪŪ— ĩ é 7 SMFI^ . ŷ ĩ ŪŪéê ĩ bcĂÑNǫ. Ý ĩ  
 MFI^ I' ĂÑNǫ. ŷ ĩ Ýé 7 ǫí k / pBž Ōǫ [ K Ý ĩ <» é 7Í

[ m, Ō } ]

K>n| . ŷ ǫ, é 7 KÍ ¶, MFI^ K• ¶ ǫ~• aœI 4Q• ŪŪÝ ĩ MFI^ dK` \_ŪŌXoØǫŪŪ  
 Ý ĩ é 7 K^\_ŪŌYoØÍ • I K> ‡ = op ĩ | p< ǫœĚùÝ ĩ O qŌ} , I ÝŌ^ Í €• š• ÝŌ^ ò  
 r ŪŪéêœÍ ù| <= d8Ž ĩ ¥• Ō% dâ¹ Âst¹ êŌst p678Ž ØǫŪŪéê ĩ MFI^ k  
 ÆuÍ ùÝ ĩ ŪŪéêž Ývã ǫ<=âĪ Âµ} ĩ É ĩ <=ør ŪŪéêÍ



(€• , f „ )... t ‡ ^ %ŪŪéê

[ ...t èì ]

0.04-40ng/mL.

[ nò...tw ]

q^ K20CÖf ÝÕ[ ÛÜÝÞBÂØ†µĩ O ^y žÛÜÆ Ý° ĩ é7Í

[ ĩ u< ]

±‡^%• | ...†TPS¤Ê...†SÇÈÉx—Lyœ<z{ ^° Í  
ù| | \*stñ ±\*}ĩ w° ¤¥9ÆE ÉÊÆÉx—Lz{ ^° ...†¤• q±‡^% 9ÆS Ê...  
†ĩ ÇÈ—L z{ ^° Í

[ Áf7 ]

Áf7• Ý†µ^ĩ u~ÒCVP\$Í CVÕ%Ø = SD/meanà 100  
• ÍÆ~ Z••?‡^%Ýð¹ È¹ ñ^µ^ ±stµ¶¶...†¤• € ±U• †µ20  
?¤â². ¸ ¥• é7 ±ĩ O ^ñSD^Í  
• JÆ~ , Z3C¥••?ĩ ‡^%â²Ýð¹ È¹ ñ^µ^ ±stµ¶¶†µ¤• C ±š•• ñ‡^%È\_†  
µ8?¤â². ¸ ¥• é7 ±ĩ O ^ñSD^Í  
• ÍÆ~ CV<10%  
• JÆ~ CV<12%

[ Pµ< ]

Ê†µ¤‡^%A ñ Ífí! €• 67% ¤„ < ò . V| 5%Í  
K...V| Í • cÝ‡^%†‡ø+...†^ĩ | m¤<=Uĩ ^%8Žì , ¶¶%" ñp¤ŠÇO<=UÍ 67¹  
7ñ6l 8ŽÍ Ç?ù• ñ<=< \*st d9...Æ• KÅÆÍ

[ <=ŽÑ ]

1¹ <=øÛÜÝ¹ ‡^ñ ±Ûĩ @  
2¹ y ÕÛÜÝÆ ±Ø100> LxyŠá¤37OC„ ÛÔ ÷• Ì 1.5VI @  
3¹ Š | • ¤y...†æÃA100> L¤37OC„ ÛÔ ÷• Ì 1VI @  
4¹ Š éÔ3?@  
5¹ y...†æÃB100> L¤37OC ñ • Ì 30âY@  
6¹ Š éÔ3?@  
7¹ yèÃ150> L¤ 2âY+/ÒÍ

[ >œ ]

1¹ ù|j 8Žñ• øst O' ¥ÆÝÝ' " ùÝĩ " stTQi • µSâã¤±GÝ9Æ A-  
µĩ L¶¶st—Í  
2¹ ñ~ĩ <=opS‡^ĩ <¹ <=âĩ ÉÊ d/ñ<=^%f™ÉÊ¤&fí Ûĩ ³æĩ Û±ĩ €Í  
3¹ ¥••?ĩ • ñGÝ9Æk ÆŠÆ²¤%~ ...†w¹ >œ7¤&• } ‡^%Ō¹ >œ• st<= d¤• žÝ  
• - >œ• ždvāÍ  
4¹ ±‡^%¹ ‡^í ĩ¹ š• ¤¥Æ´ • Çj ° Ä" ĩ GÝÍ ½ DEFG±‡^%ĩ <=> œ¢k£\*n  
ðĩ ...†opÍ  
5¹ A ñ6l HÑÈ\] . ‡^¤¥A| ŠÉÍ ‡^" / ĩ " / ?pÆ—ÔÕ¤• K, f Á  
„ ĩ • . ýp†^¥ÜNÍ

- 6<sup>1</sup> © ª ĩ „ « ŌŌŌĚ 9Ėk Ėš —L xqKMJj —x¥kÝ<=opÄ @Al mí „ ŪŌAš •  
 I Oō- ®<sup>-</sup> Zi x&ÇùøZi Í
- 7<sup>1</sup> ù| dâ¥KL<sup>1</sup> d° ÅÆÚÅ, • / ÒôÑ± M 9ĖýpÚÅopĭ G-Í <=ø&<sup>2</sup> ¾<sup>3</sup> /> œ  
 • ū´ ‡ô÷Í
- 8<sup>1</sup> A ±° î / ñ dī • CHÑĚĭ ÷M9Ėýp¥• ĭ <=opx /K>ùñ<=opĭ 9Ě\_< x<  
 =ī • — dMī ĀDE8° Í
- 9<sup>1</sup> ‡^ %Ai μø ĒHDEL...x¶ù|<sup>2</sup> • 8ŽñZ<=U8ŽÆu x9ĖkÄ <=opSi μop¥-  
 pÆ¥• • ? ‡^ %• JÆ, | ĭ Í
- 10<sup>1</sup> ± ‡^ % SÇĭ μ<sup>1</sup> • € ‡^ %Æ¥• Ā" ...t• —° ĭ —ĭ GÝüÝÝx /¥» +...top¥-pĭ  
 Í
- 11<sup>1</sup> • | ° î ‡^ %Ě´ ĭ ] ¼ ½JKĚ» , f x¶ù| î Ě» , f , Zi ¾< <sup>1</sup> Pĵ ~Ā<sup>1</sup> Ò÷ĀN  
 Z ¥• x /~• y" %Ěš ‡^ %9• | Çĭ ŪŪĚ» , fĭ ...t x½J ~• ( ¥ööš• ‡^ %...t Ě  
 » , fÍ
- 12<sup>1</sup> &@Ā ÝĚçt—ĭ é7xÆâð• ®<=Nμ Ý...t é7Í Ā ĭ « —9/ ±Ěç...—ĭ ¶h  
 ĭ ‡^ %...t èĭ Í
- 13<sup>1</sup> Š ‡^ %9Ė¥" • | —ū<=±P < ¥Nμĭ ĭ Ā<= Ýĭ ...t xÄ%ox{ • Ā+<= Í
- 14<sup>1</sup> ± d> œ• " • | 48T ‡^ %oÍ
- 15<sup>1</sup> Š ‡^ %ž ÝçĚš • x%. Ç• | S" ©ª Ā@AÇĭ • Āx ~ ŪŪ. ¥Ý• qG—ĭ ÇĚBà xĚ¥Ě  
 Ě@A" ĭ à@Í

[ ÇĚĀÍ ]

ÇĚ	9Ė •	ĀÍ ĀÍ
ŪŪééÆ	ŪŪÝŪĭ ¥MN	stMNĭ ŪŪÝĐ7Pβ
	Zñêë¥ <sup>3</sup> â	<sup>3</sup> âĭ Zñêë
	Ā¥ĀN	...j pÿM Ā÷
Āf 7ò	Šáêë¥ <sup>3</sup> â	! > œ• Ā> <sup>3</sup> â êëp#š
	´ ½¥ <sup>3</sup> âp Z ‡^ ¥æ	<sup>3</sup> â´ ½p Z ‡^
	Ě_Ñ• ĭ ĭ ÷pŪŪ	š• y ÷ĀÒÓxĭ <sup>1</sup> š• xĭ ĭ ÷pŪŪ
y ¥ĀN	...j pÿM Ā÷	
MFI ^ ò	• Óyĭ ‡^ ¶¥ĀN	ÿM Ā÷ xĀNy' ‡^
	6ĭ I J ¥MN	%Ě <sup>3</sup> æĭ 6ĭ I J
	6ĭ 67 ¥MN	‡^ ĀOwxU6ú%ĚŪNĭ 6 ĭ 67
	PEŪW—°	ÒÓ‡^
	PEŪW—Pβž Ò¥Ý	! 5> œ• <= d
	hi / ÒI J / Ò	A> œ• €• ĭ / ÒI J Ī / Ò

± ^	¥MNi ± ÑN	MN ± š • ± st < =
	¥MNi ±) Rp« ÑÑ"	QZMNi ±) Rp« ÑÑ"
	ç† —LA ±Èì ¶ò	š • ± ± È_< =