

€ • , f (NES) „ … † ‡ ^
 (%oŠ < ©ELumi nex• Ž • • ‘ ’)
 “ ” • — — ~ ™
 Š ” > œ•

ž Ÿ i ¢ E Š " ☰ ¥ " | § .. © a !

« ▷ -

[® - ° "]

± † ‡ ^ 2 " 3 ' • ' ' μ ¶ ... μ ~ ™. , 1 . ° 1 » ¼ ½ ° 1 ¾ ġ Å Å Å 1 ¾ ġ Å Å Å , A E Ç È É È • – Å
È NESI ¶ 1

[† ‡ ^ ˜ ˜]

† ‡ DÑ	Ø¶	† ‡ DÑ	Ø¶
96ÓÓÓÖf × Ø	1	96ÓÓÙÚ	4
ÛÜÝ	2	ÛÜÝPßÄ	1à 20mL
%oá	1	â ä å á Ä	1à 20mL
„ ... æ Ä A	1à 120çL	„ ... PßÄ A	1à 12mL
„ ... æ Ä B ÓPE-SAØ	1à 120çL	„ ... PßÄ B	1à 12mL
è Ä	1à 10mL	é ê ë Ä Ó30à Ø	1à 20mL
Š " > œ•	1		

[ì í î ï ð î ñ † ‡]

1¹ Lumi nex MAGPI Xò ☰ Lumi nex 100ó ☰ Lumi nex

200ó ☰ AEBi o-Radò, Bi o-Pl exoå å ô Óö ö ô ÷ Š " øùø ®ú, ú ü ý í „ þ ý Üø

2¹ • A E < ¶ Å ÷ ñ

3¹ Pß Y ï EP .

4¹ A E •

5¹ %o

6¹ é Ä i ï ï ÷

7¹ 0.01mol /L ÓÆ1à Ø å å (PBS) ☰ pH=7.0-7.2

8¹ ÷

9¹ Ú Õ ÷

[† ‡ ^ ï ñ -]

Cloud-Clone Corp.

1¹ Š" †‡^— †‡! " †‡#Û\$Å %& Š' () * + †‡^ , ' - . / ÛÜÝ¹ „ ...æÅA
1 „ ...æÅBOñ96ÓÔ& | -201C¤Ç2†‡' 3| 41C& † " Š
2¹ Š" , Š" †‡^—42†‡5ì " 6†‡#Û\$ %i 78& Š
() —
†‡^ Š" 09: ; <¤" =>ì ? : â @Š" AŠ" , Š" 42†‡^ ÕöBC@=>, 1DE† Š" FGÍ H
ÝI - JKO^ • Å†Û\$LÜ¤&M- Š" » â NO&PQµi Š"

[Û±i RST&]

» ¼½° — ¥UVW Š" » ¼X† ½° Š" Y' Z ¥U
1Ø[" ¶" » ¼\¤B®] PBSØ0.01mol/L¤ pH=7.0-7.2ØE, è ^· Å¤½° ø_Ñ` Š"
2Ø/ » ¼ab~ \¤! ½i c 3BdÅi e fgÅÄääåÅ(hi IS007¤° j kI Ü, fí m¾¤µno
¤¥UVW äåÅ)í qr! M÷EÖ< ~ Š" » ¼st uv Ø Š" OM¶ wx=1:20-1:50¤yu—1mLÄÄä
åÅEz c 20-50mg» ¼ ± Š" Ø
3Ø/ { +i | } Å~I • €• , f „ , Š"
4Ø/ X† Š" ½° Å10,000àg ' 5â...¤†‡^¤Å, %o: " | „ ...Æ3| -201CŠ& Š"
¾¤ÅÄÄ—Bâä †>< ø¤¾¤i Æ" OŠY' • , —
1Ø• Ž¤¾¤° • "] PBS• • , è¤' , " ' , f " " ¤ | 1,000àg ' 5â..., * SÍ Š" • ¾¤: —
| ' — * SØÍ
2Ø/ * S+i ¾¤"] PBSê 3@A
3Ø/ ¾¤" fgÅÄääåÅ` | f™8L107D¾¤/š> ¤uœi t¤¾¤: O• ž• €Ý• , fæÅ„ , Š"
4Ø/ Ü±| 2-81C 1,500àg ' 10â...¤†‡^¤Å, %o: " | „ ...Æ3| -201CŠ& Š"
¾¤ÅÄÄ, ÆÇÈ• - Ü±—' 1,000àg ' 20â...¤[Å, %o: „ ...¤Æ/Å, 3| -201CÆ-801C& ¤
| ¤£¤¥Í
() —
1¹ OÅÜ±! i ™ & ¤41C& ~ | 1| ¤-201C¥• | 1DE ¤-801C¥• | 2DE Š"
2¹ Ü±§ „ æ. Z ©¤ «, „ ...œ¤Žvæ. Ü±¥- • ž v ® „ ...Í
3¹ Ü±Š" ø° ä° ! ° f±7¤¥° zúš< ¥ÅÍ
4¹ 2 | 3 ¶ „ ...Øk¤' µ¶· Š" . , , ¥P· ° 1 L ±• ž „ ...Í

[Luminex200 å å ô]

1. å å w—50uLA
2. < ÆVW—%oå MagPIex;
3. ° %oå ¶|—50» /¼;
4. MFI ½—Medi an.

[†‡Ü†]

1¹ Š" ø/ Š" †‡þÛ±ä° ! ° f±7Ø18-251CØ¤uœ• †‡^ B-¾J K† ¥¤š" ¤' ž [§±
@†> i i Ü9þ†‡¤ü/42i Ü9ñ†‡" Åµ9Å& Š"
2¹ ÜÜÝ(¤ÅÝ)—Å#ÛÜÝz cÛÜÝ¤BÅ0.5mL¤ÅÝ, ±7Å3³ Æ10â...¤UJ • • ÇÈÖ i É
ÊØ¤Çé8L10.0ng/mL Ü† 7DPBÛÜÝi EP ¤ÅDEP Èz c300ELi ÜÜÝ¤BÅ¤uì %j
@Í x¤BÅb10.0ng/mL, 2.5ng/mL, 0.62ng/mL, 0.16ng/mL, 0.04ng/mL, 0.01ng/mL, 0.0ng/mL¤ÛÜÝ¤BÅ(0ng/mL)—~ 1 L ØfØí L&† = >-œ Š¤Ã@=>' Š" fí ÜÜÝæÅÍ



item	1	2	3	4	5	6	7	Tube
NES	10.0	2.5	0.62	0.16	0.04	0.01	0	ng/mL

3¹ „ ...æĀAñ „ ...æĀB—Detection A ñ Detection BBš" ø' " ī ĐÑŠÆÒÓ ' • , øOŠ ÔÔB
ŽÆ#Äi Ä f w+ ÖÍ Š" øâ x O, ...PÐAAÆB 1:100PÐ(u—10ÈL, ...æĀA/990ÈL, ...PÐ
ÄA) øØâ Ù½ øPÐøÙk ®_ ÙÜýi Ä@=> i i ° ¶ÝX(100ÈL/Ö) ø = PÝXJ ° ÝX0.1-0.
2mLí

4¹ é ê ë Ä—580mL Æ • z c 20mLê ë Ä Ö30à ØPß f 600mL fß 1 Äé 8í
() —

11 ÜÜÝÍ ÞÞ¥—~ BÔË•žÍ

21 ÜÜÝ' | §" Ø15â...ÍÝXÍ • ÜÜÝà¿š" ¬@Í

3¹ ÚÜÝ¹ „ ...æÂAÐ¹ Â¹ „ ...æÂBÐ¹ Â' š" É° ī þBÂÝX ðþBÂ¥ ðÙ" í " Áá • • áã
 Øâ Ù½ð i ÉÉÍ L&Î => -œii ÜOŠ' š" < ¶ ðûý Ü< ¶ Â÷í ' j k i i ¶äOÝ
 X ð- ¶¥t š" < ¶ÝXí Y' Œu [„ ...æÂAJ ð-@¥t ~ | 10ÈLØðO i åbé8æc í

41 ' è ` Eš" é ~ PBI i ÜÜÝ¹ „ ...æÄAÐ¹ Äþ „ ...æÄBÐ¹ ÄÍ

51 ê ë Ä Õ 30 x Ø Ë u - ê ã § æ' _ 7 ë f ± 7 æ • • Ù ½ æ f + - ê F ì æ Á í • ž Ý X Í

6¹ †‡^ Èî â†‡L Â¤i Òì Ý3bB¹ Â, š" ¤BÝ3I ñÈ: ¿ŽLòó M¶çÆ Môó¤ Oñ=>È " ö÷øó8ç ¤åb=>-œ¥ÜO¤ùfFì úæl ' š" ³ Ý3Í

[$\hat{U} \pm \bullet$,]

1¹ ±üüàý†‡^ ±þÿ ø¥ýŽš" • †‡^ åbíi ±" öÿ ø' š" š" øØå + ±í
: ðš" ¶ ø® ø í ±í

*2¹ => Ø° _ ®... ± Æ ...- é 8Í é 8¥ B Ü Ü Í Í J æ" Ø O μ Ç μ => Í « Ý Þ
ßÍ ØÍ uæ Ý Æ ...- é 8I Æ I æ' ý ± ü" Í PBSÆé Í ± PBSI " PBSÍ*

3¹ „ ± ¥ Í B> œ• ± < Ë œÖÖ• Ž ®=>>Í Ç Š œû() ± Í

41 Š " " ÀÁÂXÎ ï » ¼½º Æ¾¿ Ù[Â: ¿ Z | " - Mi c => -œ çí

51 ± L ¾ Æ Å Ä Å , ☒ Ź L • V ± Ä Ź ! ☐ u - ¾ Æ " # 1 ¾ Æ Ø ¶ 1 R J K \$ ☐ O: Æ B
" ... ¥ § ï % & Í

6¹ ' ' , fÆ` » , f¤ () * ñ + * ` » , f¤ : ġŽLT±HÝ Š" ï „ … ‘ ñ , - ‘ ¥. Ý
¤ , ¥ × „ … ŠÍ

71 ŐÖŠ" fg ±ꝝ& JK! /: ¿ZŽ, fOÁÆ1Š, => -œ çí

[2¹ 34]

1¹ / => Öï ÄÖî z c 200ul å ä ä å Ä" O®5 ø 6, B ÜÖ ÷ Å ± 77 10å ... ø<, ĐÄÖî
Ä ø%o: " | z 2¹ í

2¹ z —â × ØÜÜÓ¹ ... ÝÓ¹ ÖfÓÍ ØÜÜÓ⁷Øjz @z c 100ÈL¥Ué8í ØÜÝÓ8t‡Üí 2 ØÍ ÖfÓz 100ÈLÛÜÝPßAÓ8t‡Üí «93», ~ Ø¤2Óz ... ÝÓÆPß, i ÝØ100È L¤ÃÓz 10ul‰á Ø ÜÔz ÅÙÚ¤371C ÜÔ ÷ 7ë1.5~ J Ø È: ; Ø3L 800rpm Ø <2-4mm Ø = >%‰á ‡OÍ

3¹ Å‰o ø2â... , † Â ø‰o &?í " #ŠÐÂ ø¥" êëÍ



5¹ Å‰o 2â..., † Ä ÄÓ" 200ËLÍ êëÄêë @Ê1-2â... † Öí Ä Í ` EêÖ3@
Í «, ¬@êë, Ä [ÄA§ 42i êëääÄ / ÜÖABB CÅ / D BÓÍ i Ä i Ä
Í vI n̄s: í È‰ eÖEFFbÍ

6¹ ^‰o ÄÓz „...æÄBß¹ ÄÖ§" ØÝXØ100ËLä ÜÖÙÚ 371C ÜÖ ÷ 730â... o È
: ; Ø3L800rpm <2-4mm = >%á ‡ OÍ

7¹ Å‰o 2â..., † Ä ÄÓ" 200ËLÍ êëÄêë @Ê1-2â... † Öí Ä Í eÖ3@ o Y
' U345Í

8¹ ^‰o ÄÓz è Ä150ËLä 7 2â... o š< ØG| •" # o‰: ÄEHÖÍ
() —

1¹ † ‡ Üí —Üí ¬@=> i tí Ü9oÇEí : I < ÖÖÅ; Š o™ o" 6> œ• t ? & o Öí Š@
š" í

2¹ z —=> 2¹ E' š" ¬@Ší JK o i ööí z J() ¥t LËH• / Ÿz | ÜÖÖí
o - ¶¥MñÖž o• • NÈÙ½í T¢° † ‡ z c - o z I n̄E « - DÖT «, ¬DÖz JKKO-
¶~ Ö - PQXB10â... Oí Øo uœR³ o / Z ¥Uí S®7ëTJK o I , œUV©ª + ... ¶½í Ü
OŠñ` EŠí LW...½í ÜOŠ o ¶. Ø3EÓ• ž => í

3¹ 7ë—L=> Ÿ X o=> J' / z ÅÄÆÙÚí ÜÖ3! 5^í o o i Ä X o eÖ, ° - . • ž
Š 32¹ oYZJ [N° i ÜÖ• | Ä\ " # o UJ°] ^_` aµi 7ëJ Kþ78í

4¹ êë—Øâêëbc` t o BÄ@êëI n̄E o Nt / êëÄFí DÄí uœš" í ÈêÖE o' Bdeš"
, í " | f g=> I n̄Eí

5¹ uœ=> ± 58 | 60% o ¶. š" z 5 ÷ ù 58 hí

[=>) ,]

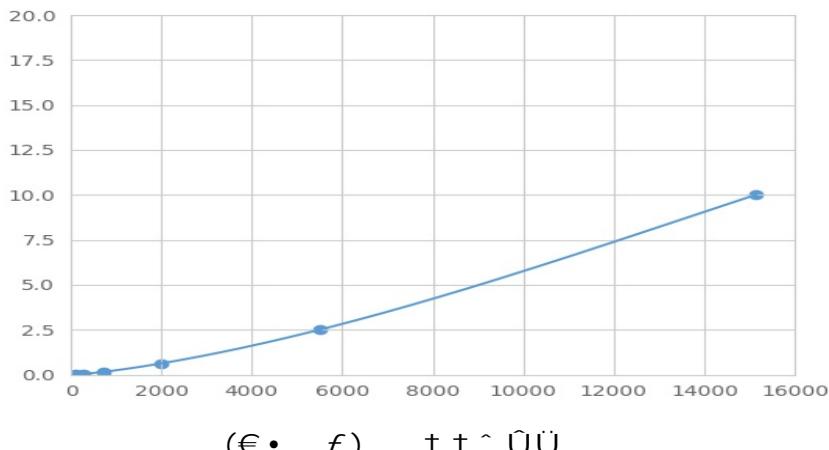
/ NES' × | % Š < Œ i j ☉ X b k É I ☉ m< Œ È â x z c Ú Ü Y Ä Ü ± ☉ Ç È N E S T n ~ ; k É I Å
 ī ' - o ☉ , z c • - " ī N E S' ☉ B / - o ī • - " ' ê ó, ☉ z c P E Ü p ī q b ☉ P E x r X
 , ☉ Ú k M F I ½ Medi an Fluorescence Intensity Ø ī ³ ~ b Y È i N E S è 8 G f È È í " Lumi nexâ ä Ô ... µ
 ☉ Ü Ü Y è 8 í

[ÜÜ]

s ÜÜÝñ ±MFI½B^ÖfÓMF1½, 1 ï Öt uì Øøuð3EØøv° [Çh! ½ÜÜÍ OÜÜÝí e8 Lwx ÜOÆý Ðx ÜØøMFI½Ly x ÜOÆý Ðx ÜØøz SÜÜ Ö« Yñg°j { | YñÜÜÍ R2½ Fµ øOR2½} ~• | 1LýØÍ ¶· š" €• X¹ , Á• žâã øucurve expert 1.30øÜk YMF1½ø ÜÜ fSÉ°i e8ø „ OPBÍ ÐAÆ” ÜÜ- i e8TMFI½ÜÜSÜÜ i { | Yñg ø/ Yí MFI½...cYñg øÜÜS Yé8øí „ OPBÍ Ðø%L Yí = Þé8í

[t wòk]

LW‡ | ÜÜ¤- é8Lí 1¶ , MFI½LŽ1¶¤ ` μzì J 5R" ÜÜÝi MFI½¹ LyxÜÖX^ Ø¤ÜÜ
Ýi é8Lwx ÜÖY^ ØÍ UJLW† > -œi -‰Š¤l ÈùÝi P) ŠOk , býØ½Í ¶· š" ýØ½ö
< ÜÜ 11 | => 2¹ 9Ái ¥UÖu 2¹ ¹ ÁŒ• ¹ êÔŒ• þ789Á\$Ø¤ÜÜ i MFI½Z
çŽí ùÝi ÜÜ žÝ• ¤=> i tÚkí éi => ö< ÜÜ í



[]

0.01-10ng/mL.

[]

$\sqrt{2L} 20DOf$ $\tilde{Y} \tilde{O} \% \tilde{U} \tilde{U} \tilde{Y} \tilde{P} \tilde{B} \tilde{A} \tilde{O} \dots \mu \tilde{t} \tilde{h} ! \tilde{z} \tilde{9} \tilde{1} \tilde{U} \tilde{U} \tilde{c} \tilde{y} \tilde{o} \tilde{t} \tilde{e} \tilde{8} \tilde{1}$

[ZS]

$\pm \tilde{t} \tilde{f} \tilde{h} \tilde{m} \tilde{N} \tilde{E} \tilde{S} \tilde{x} \sim \tilde{t} \tilde{C} \tilde{E} \tilde{E}' - M' \tilde{o} \tilde{U} \tilde{h} \tilde{f} \tilde{C} \tilde{E} \tilde{E}' - M'' \tilde{f} \tilde{Z} \tilde{v} \tilde{t} \tilde{f} \tilde{h} \tilde{t} \tilde{C} \tilde{E} \tilde{E}' - M''' \tilde{f}$

[aTM8]

$\tilde{a} \tilde{t} \tilde{m} \tilde{8} \tilde{Y} \dots \mu \tilde{1} \tilde{i} \tilde{1} \tilde{Z} - \tilde{O} \tilde{C} \tilde{V} \tilde{i} \tilde{C} \tilde{V} \tilde{O} \% \tilde{O} = \tilde{S} \tilde{D} / \tilde{m} \tilde{e} \tilde{a} \tilde{n} \tilde{1} 100$

$\tilde{\sim} \tilde{1} \tilde{c} - \tilde{[} \tilde{U} \tilde{\sim} \tilde{t} \tilde{f} \tilde{h} \tilde{y} \tilde{1} \tilde{E} \tilde{1} \tilde{1} \tilde{2} \tilde{\mu} \tilde{1} \tilde{2} \tilde{\pm} \tilde{t} \tilde{z} \tilde{\mu} \tilde{P} \tilde{\dots} \tilde{A} \tilde{t} \tilde{m} \tilde{\pm} \tilde{n} \tilde{s} \tilde{\dots} \tilde{\mu} \tilde{2} \tilde{0}$

$\tilde{\alpha} \tilde{x} \tilde{a} \times \tilde{U} \tilde{U} \tilde{Y} \tilde{U} \tilde{e} \tilde{8} \tilde{\pm} \tilde{t} \tilde{h} ! \tilde{1} \tilde{2} \tilde{n} \tilde{S} \tilde{D} \tilde{1} \tilde{2} \tilde{1}$

$\tilde{\sim} \tilde{K} \tilde{c} - \tilde{o} [\tilde{3} \tilde{D} \tilde{Y} \tilde{U} \tilde{\sim} \tilde{t} \tilde{f} \tilde{h} \tilde{a} \tilde{\times} \tilde{y} \tilde{1} \tilde{E} \tilde{1} \tilde{1} \tilde{2} \tilde{\mu} \tilde{1} \tilde{2} \tilde{\pm} \tilde{t} \tilde{z} \tilde{\mu} \tilde{P} \tilde{\dots} \tilde{\mu} \tilde{A} \tilde{D} \tilde{\pm} \tilde{s} " \tilde{U} \tilde{\sim} \tilde{t} \tilde{f} \tilde{h} \tilde{e} \dots$

$\tilde{\mu} \tilde{8} \tilde{\alpha} \tilde{x} \tilde{a} \times \tilde{U} \tilde{U} \tilde{Y} \tilde{U} \tilde{e} \tilde{8} \tilde{\pm} \tilde{t} \tilde{h} ! \tilde{1} \tilde{2} \tilde{n} \tilde{S} \tilde{D} \tilde{1} \tilde{2} \tilde{1}$

$\tilde{\sim} \tilde{1} \tilde{c} - \tilde{C} \tilde{V} < 10\%$

$\tilde{\sim} \tilde{K} \tilde{c} - \tilde{C} \tilde{V} < 12\%$

[QμS]

$\tilde{\sim} \tilde{\mu} \tilde{\alpha} \tilde{t} \tilde{f} \tilde{h} \tilde{B} \tilde{\sim} \tilde{1} \tilde{>} \tilde{1} \tilde{P} \cdot \tilde{7} \tilde{8} \& \tilde{\alpha} \tilde{e} \tilde{S} \tilde{O} ; \tilde{/} \tilde{\sim} \tilde{1} \tilde{5} \tilde{1}$

$\tilde{L} \cdot \tilde{\sim} \tilde{j} \tilde{1} \tilde{Z} \tilde{y} \tilde{t} \tilde{f} \tilde{h} \tilde{z} \tilde{Y} \tilde{\varnothing}, \tilde{\sim} \tilde{1} \tilde{2} \tilde{i} \tilde{C} \tilde{a} \tilde{\alpha} \tilde{=}> \tilde{t} \tilde{i} \tilde{j} \tilde{9} \tilde{A} \tilde{i} - \tilde{P} \tilde{\&} \tilde{?} \tilde{\sim} \tilde{\alpha} \tilde{C} \tilde{C} \tilde{P} = > \tilde{t} \tilde{1} \tilde{7} \tilde{8} \tilde{1} \tilde{5}$

$\tilde{8} \tilde{n} \tilde{7} \tilde{e} \tilde{9} \tilde{A} \tilde{i} \tilde{C} \tilde{\alpha} \tilde{U} \tilde{\sim} = > \tilde{F} \tilde{F} \tilde{\bullet} \tilde{z} \tilde{2} \tilde{1} : \tilde{\alpha} \tilde{Y} \tilde{L} \tilde{a} \tilde{c} \tilde{1}$

[=>|n]

$\tilde{1}^1 = > \tilde{\varnothing} \tilde{U} \tilde{U} \tilde{Y} \tilde{1} \tilde{t} \tilde{f} \tilde{n} \tilde{\pm} \tilde{U} \tilde{1} \tilde{A}$

$\tilde{2}^1 z \tilde{\tilde{O} \tilde{U} \tilde{U} \tilde{Y} \tilde{A}} \tilde{\pm} \tilde{\varnothing} \tilde{1} \tilde{0} \tilde{E} \tilde{L} \tilde{\alpha} \tilde{z} \tilde{\%} \tilde{a} \tilde{\alpha} \tilde{3} \tilde{7} \tilde{1} \tilde{C} \tilde{\tilde{U} \tilde{O}} \tilde{\div} \tilde{S} \tilde{\ddot{e}} \tilde{1.5} \tilde{J} \tilde{A}$

$\tilde{3}^1 \% \tilde{\tilde{D} \tilde{A} \tilde{\alpha} \tilde{z}} \tilde{\dots} \tilde{\alpha} \tilde{A} \tilde{1} \tilde{0} \tilde{E} \tilde{L} \tilde{\alpha} \tilde{3} \tilde{7} \tilde{1} \tilde{C} \tilde{\tilde{U} \tilde{O}} \tilde{\div} \tilde{S} \tilde{\ddot{e}} \tilde{1} \tilde{J} \tilde{A}$



41 % e Ô3@A

51 Z „ ...æB100EL≈371C È§ë30â...A

61 % e Ô3@A

71 z è Ä 150 È L ø 7 2â ... , H Ó I

[> œ]

11 | " 9Áñ " E• h©¥¿ÝÝh^a ùÝí) « • žì j ī -μTâā ø±HÝ: ¿ B-
μí M¶E• - ®í

$2^1 \ll -i \Rightarrow -\alpha e T + \frac{1}{2}i$ $S^1 \Rightarrow i E E 2^1 O \bar{n} \Rightarrow i^{TM} E E \alpha' \Rightarrow \bar{U}i \emptyset -i U \pm i^{TM} i$

3¹ ¥U~ @i U¬HY: ¿Z ☒° ☑x ☑u— „ ... • 1 ± 2 8 ☑' j k † ‡ ^ † > œ• • Ž => 2¹ ☑ 3 ' µ
• - > œ• Ž 1 • ſ

4¹ ±†‡^ Ŷ•†‡ Ŷ•š" ☯¥ጀÙ" Ç¶Xåª Ŧ HŶÍ à] ^_` ±†‡^ Ŧ =>> œ· Z{ +« Ŧ „ ...œÍ

5¹ B ñ 7ëI ñ Ë i / †‡, 1 B° » ËÍ †‡#Ä Ä¼O=> Xþ< • - ô õ ã ŽL, f Ä
í Å / ...½¥ÜOÍ

7¹ | 2¹ ¥de¹ 2¹ ÄæÆúæo" HÒôñÄ\$N : ¿ úæ-œï H• Í => Ø' Å¾ÆH> œ
• üÇ†ô÷Í

8¹ B ± X̄ Oñ 2¹ ī ÄDI ñ Ē ī 1 " N: ¿ ¥ Uī => ¬ œ ø OL Wù => ¬ œ ī : ` E Š ø =
> ī Ä¬ 32¹ Ni t] ^ QXÍ

91 †‡^ B§Èø! ~!] ^M, æÉ | 2 È9ÁñS=>±9ÁçŽ æ: ¿Zåb=>¬œT §È¬œ¥¬
Æ¥U^ @†‡^ ~ KçÈ³í %&Í

10¹ ± †‡^ TÇ¶Œl UV†‡^ Æ¥UY' „ ...U¬I i – i HYüy x ø O¥†^ „ ...œ¥¬ i
%&Í

111 " | Xî †‡^ È́ † i î) - c L` » , f ñ É | î ` » , f o[î î ¾¹ i Đ—Ñ¹ ò" Yg\$
s ¥U¤ O' µ' ' &î • †‡^ : " | Ç¶ûü` » , f î „ ...¤-c' µs ¥ÖÖŠ" †‡^ „ ...`
» , f î

121 ' ®Ø ŸŒ ...-ï é8¤Æ ØÛ®=>Øµ Ÿ „ ...é8Í Ø ï • , : Ø=> ±Œ „ -ï ¶•
§†‡^ „ ... Í

131 • †‡^ : ¿ ¥" " | - = > ± | Š¥Oμī Ō= > Ÿī „ ...xyuα² ŽŌ^ = > \$Í

$14^1 \pm 2^1 > \infty$ U " " | 48T† ≠ ^ Í

15¹ • †‡^ž ŸŒſ" œu/Ç" | ſ" ©^a ÆYZÇ¶" Öœ' ūü/¥ýŽvH•ī ×Øy œÙ¥Ú
ÛYZ' Ü YÍ

[$\times \emptyset \text{A} \text{Y}$]

$\times \emptyset$: ġ) Ž	ÁPYB
ÜÜ Ç	ÜÜÝÜî ¥f O	• ž f Oí ÜÜÝà 8þþ
	[ñêë ¥Øâ	Øâí [ñêë
	Â¥äO	" fþýf Â÷



ä™8	%oá êë ¥Øâ	" > œ• t ? Øâ 7 êëþ@Ê
	Ù½¥Øâþ [†‡¥	Øâ Ù½þ [†‡
	` EŒ" ¹ Ŧ ÷þÙÚ	Š" z ÷t áâf ī ¹ Š" f ī Ŧ ÷þÙÚ
	z ¥äO	" fþýf Á÷
MFI ½	ÄÓzī †‡¶¥äO	ÿf Á÷¤äOz c †‡
	7ëJ K¥f O	&î Ø ī 7ëJ K
	7ë78¥f O	†‡t h° f±7ù&î ÜOī 7 ë78
	PEÛp-Ã	áâ†‡
	PEÛp- Pßí Ò¥ý	" 6> œ• = > 2¹
	• §HÒJ KHÒ	B> œ• ¶· ī HÒJ KÎ HÒ
± ½	¥f Oī ± Yg	f O ±¤š" fg ±• ž =>
	¥f Oī ± * Sþ• , Y'	R[f Oī ± * Sþ• , Y'
	...- MB ± EÌ ¶	š" fg ±¤` E=>