

€• , f „ ... † ‡ f „ ^ %of „ 2(APPBP2)Š < Œ• Ž
 (• • ' ' Lumi nex“ ” • — —~)
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α ¥ † | § ” š ©ª š « - - ® - !

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 ‡ ÑAPPBP2Ò» Ó

[Œ• Ž Ô Õ]

Œ• Ö ×	Ø»	Œ• Ö ×	Ø»
96ÛÜÛÜ„ Ý Þ	1	96ÛÜßà	4
á â ã	2	á â ã ä å Ě	1æ20mL
• ç	1	è é ê ë Ě	1æ20mL
Š < ì ĚA	1æ120íL	Š < ä å ĚA	1æ12mL
Š < ì ĚBÛPE-SAP	1æ120íL	Š < ä å ĚB	1æ12mL
î Ě	1æ10mL	ï ð ñ Ě Ű30æP	1æ20mL
š j € £	1		

[ò ó ô õ ö ÷ Œ•]

- 1¿ Lumi nex MAGPIX®Lumi nex 100ü©Lumi nex
- 200ü©Í Bio-Radø, Bio-Plexè é ú Ű Ű Ű Ű ý š t p t³ ÿ, ó Š à P
- 2¿ ” Ì ‘ » Ě ý ÷
- 3¿ ä å, ã õ EP .
- 4¿ Ì •
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- 6¿ ð Ě õ Ō ý
- 7¿ 0.01mol/LÛÏ 1æP è è (PBS)©pH=7.0-7.2
- 8¿ ý
- 9¿ á Ű ý

[Œ• Ž õ ÷ ´]

1 ě ! " # õĚ• Ž• \$ Ě• %&Ě• ' á (Ě\$) * Ó+, - ©. /Ě• Ž O+1 2 3 á â ã ě Š < ì ÈÀ
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2 ě š O õĚ• Ž• 8 6Ě• 9 ò & : Ě• ' á (\$) õ ; < * Ó
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ã M ´ N O 4 Ž• Ě õ á (P à © * Q ´ Ô \$ Á è R S * T U ° õ Ó

[á ě õ V W X * _]

½¾• 3. W « ½¾ è Ñ ò Y ½ á ě F Z ; 7 ¼ N Ì 4 5 C M [© \ O 1,000 æ g — 20 è] © ^ Ě ¾ _ > ©
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½ Å • š E D T A Ì f g h P ¹ i • V W á ě © 3 á ě F V W O õ 30 è] Ô « 2-85C 1,000 æ g — 15 è] © ^ Ě ¾
 _ > Š < © Ì 3 Ě ¾ 7 « -205C Ì -805C * © ` a b c d e Ó
Á Å Å Å • ª j k l õ Á Å m õ Å Å ò ñ ~ o \$ ª j
1 P ^ ™ » Á Å p © F ³ q P B S Û 0.01 mol / L © pH = 7.0 - 7.2 P Ñ ¾ ò r ½ È © Å Å † s x t Ó
2 P 3 Á Å u v ¼ p © % Å õ w 7 F x Ě õ y z { Ě Ç è è È (| } I S 007 © µ ~ • € á f „ õ • Å Å ° , f
 „ ª j k l õ è è È) õ ... † % Q y Ñ Û ´ ¼ õ Á Å † ^ % Š P Ó Û Q » † < Ě = 1:20 - 1:50 © • % • 1 mL Ě Ç è
 è È Ñ Ž w 20 - 50 mg Á Å , ě Ó P
3 P 3 • / õ • ' Ě ' M " " • — — ~ ¾ Ó
4 P 3 m ò õ Å Å È 10,000 æ g — 5 è] © ™ š € © Ě ¾ _ > š « Š < Ì 7 « -205C > * Ó
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Å Å Ě Ě ¾ Ì Í Í > œ á ě • + 1,000 æ g — 20 è] © ^ Ě ¾ _ > Š < © Ì 3 Ě ¾ 7 « -205C Ì -805C * ©
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[Lumi nex200 è é ú]

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[Ě • â ô]

1 ě š † 3 \$ õĚ• á ě è , % ¹ — Z ; Û 18-255C P © % ñ Ě• Ž F ± Å N O Ô ª Å š © + ¤ ^ ± ě
 D Ě B \$ ò õ á = Ě • © 3 8 6 õ á = ÷ Ě • & Ě ° = Ç * Ó

2. $\text{Á} \text{á} \text{ã} (\text{d} \text{È} \text{ã}) \cdot \text{É}' \text{á} \text{ã} \text{ã} \text{Ž} \text{w} \text{á} \text{ã} \text{ã} \text{ã} \text{È} 0.5 \text{mL} \text{©} \text{É} \text{OZ}; \text{È} 7 \text{ž} \text{Ì} 10 \text{è}] \text{©} \text{j} \text{N}_i \text{; } \text{Í} \text{Í} \text{Û} \text{`} \text{a} \text{Í} \text{Đ} \text{P} \text{©} \text{Í} \text{í} < \text{P} 10.0 \text{ng/mL} \text{Ó} \text{â} \text{ô} 7 \text{H} \text{ä} \text{á} \text{á} \text{ã} \text{ã} \text{õ} \text{EP} \text{©} \text{É} \text{HEP} \text{Ñ} \text{Ž} \text{w} 300 \text{Ñ} \text{L} \text{õ} \text{á} \text{ã} \text{ã} \text{ã} \text{È} \text{©} \% \text{Ò} \text{\$}) \sim \text{D} \text{Ó} \text{Æ} \text{ä} \text{á} \text{v} 10.0 \text{ng/mL}, 2.5 \text{ng/mL}, 0.62 \text{ng/mL}, 0.16 \text{ng/mL}, 0.04 \text{ng/mL}, 0.01 \text{ng/mL}, 0.0 \text{ng/mL} \text{©} \text{á} \text{ã} \text{ã} \text{ã} \text{È} (0 \text{ng/mL}) \text{§} \text{¨} \text{h} \text{P} \text{Ü}, \text{Û} \text{Ó} \text{P} \text{*} \text{Ô} \text{A} \text{B} \text{^} \text{¬} \text{•} \text{©} \text{É} \text{D} \text{A} \text{B} \text{+} \text{š} \text{z} \text{õ} \text{á} \text{ã} \text{ã} \text{í} \text{É} \text{Ó}$

item	1	2	3	4	5	6	7	Tube
APPBP2	10.0	2.5	0.62	0.16	0.04	0.01	0	ng/mL

3. $\text{Š} < \text{ì} \text{È} \text{A} \text{÷} \text{Š} < \text{ì} \text{È} \text{B} \cdot \text{Detection A} \text{ ÷} \text{Detection B} \text{F} \text{š} \text{†} \text{+} \text{š} \text{Ö} \text{Ö} \text{x} \text{>} \text{Ì} \text{Ø} \text{Û} \text{—} \text{•} \text{—} \text{©} 4 \text{Ú} \text{Ü} \text{F} \text{Ý} \text{Ì} \text{'É} \text{õ} \text{È} \text{†} \text{š} < / \text{Ü} \text{Ó} \text{—} \text{š} \text{†} \text{è} \text{Ý} 4 \text{Š} < \text{ä} \text{ã} \text{È} \text{A} \text{Ì} \text{B} 1:100 \text{ä} \text{ã} (\% \cdot 10 \text{Ñ} \text{L} \text{Š} < \text{ì} \text{È} \text{A} / 990 \text{Ñ} \text{L} \text{Š} < \text{ä} \text{ã} \text{È} \text{A}) \text{©} \text{P} \text{è} \text{B} \text{Ã} \text{©} \text{ä} \text{á} \text{†} \text{à} \cdot \text{³} \text{s} \text{á} \text{ã} \text{õ} \text{É} \text{D} \text{A} \text{B} \text{\$} \text{ò} \text{õ} \text{À} \text{»} \text{ã} \text{m} (100 \text{Ñ} \text{L} / \text{Û}) \text{©} \text{A} \text{ä} \text{ã} \text{m} \text{N} \mu \text{ã} \text{m} 0.1 \text{—} 0.2 \text{mL} \text{Ó}$

4. $\text{ì} \text{õ} \text{ñ} \text{È} \cdot 580 \text{mL} \text{Ì} \text{•} \text{Ž} \text{w} 20 \text{mL} \text{õ} \text{ñ} \text{È} \text{Û} 30 \text{æ} \text{P} \text{ä} \text{ã} \text{—} 600 \text{mL} \text{—} \text{ã} \text{h} \text{È} \text{í} < \text{Ó} \text{,} \text{—} \text{•}$

1. $\text{á} \text{ã} \text{ã} \text{õ} \text{ä} \text{ã} \text{ª} \text{Å} \text{§} \text{¨} \text{F} \text{Ú} \text{Ñ} \text{—} \text{®} \text{Ó}$

2. $\text{á} \text{ã} \text{ã} \text{+} \text{«} \text{¬} \text{š} \text{†} 15 \text{è}] \text{Ô} \text{ã} \text{m} \text{Ó} \text{á} \text{ã} \text{ã} \text{æ} \text{Å} \text{š} \text{±} \text{D} \text{Ó}$

3. $\text{á} \text{ã} \text{ã} \text{ž} \text{Š} < \text{ì} \text{È} \text{A} \text{ã} \text{h} \text{È} \text{ž} \text{Š} < \text{ì} \text{È} \text{B} \text{ã} \text{h} \text{È} \text{+} \text{š} \text{Í} \text{μ} \text{õ} \text{ä} \text{ã} \text{È} \text{ã} \text{m} \text{©} \text{ä} \text{ã} \text{È} \text{ª} \text{Å} \text{B} \text{š} \text{Ó} \text{š} \text{È} \text{ç} \text{í} \text{; } \text{è} \text{é} \text{P} \text{è} \text{B} \text{Ã} \text{©} \text{`} \text{a} \text{Í} \text{Đ} \text{Ó} \text{P} \text{*} \text{Ô} \text{A} \text{B} \text{^} \text{¬} \text{õ} \text{â} \text{S} \text{•} \text{+} \text{š}' \text{»} \text{©} \text{á}' \text{»} \text{È} \text{ý} \text{Ó} \text{+} \text{~} \text{•} \text{\$} \text{ò} \text{õ} \text{»} \text{è} \text{S} \text{ã} \text{m} \text{©} 1 \text{»} \text{ª} \text{^} \text{š}' \text{»} \text{ã} \text{m} \text{õ} \text{ñ} \text{~} \text{Û} \% \text{^} \text{Š} < \text{ì} \text{È} \text{A} \text{N} \text{©} \text{±} \text{D} \text{ª} \text{^} \text{¼} \text{«} 10 \text{Ñ} \text{L} \text{P} \text{©} 4 \text{`} \text{a} \text{è} \text{v} \text{í} < \text{ì} \text{í} \text{Ó}$

4. $\text{+} \text{í} \text{t} \text{c} \text{š} \text{í}' \text{ä} \text{ã} \text{M} \text{õ} \text{á} \text{ã} \text{ã} \text{ž} \text{Š} < \text{ì} \text{È} \text{A} \text{ã} \text{h} \text{È} \text{Š} < \text{ì} \text{È} \text{B} \text{ã} \text{h} \text{È} \text{Ó}$

5. $\text{õ} \text{ñ} \text{È} \text{Û} 30 \text{x} \text{P} \text{Ñ} \% \text{^} \text{ð} \text{é} \text{±} \text{©} \text{+} \text{s}; \text{ñ} \text{—} \text{Z}; \text{©} \text{; } \text{í} \text{B} \text{Ã} \text{©} \text{—} / \text{^} \text{ð} \text{J} \text{Y} \text{ì} \text{Ç} \text{ò} \text{—} \text{®} \text{ã} \text{m} \text{Ó}$

6. $\text{Æ} \cdot \text{Ž} \text{Ñ} \text{ó} \text{è} \text{Æ} \cdot \text{P} \text{È} \text{©} \text{ó} \text{ò} \text{ð} \text{ã} 7 \text{v} \text{ã} \text{h} \text{È} \text{Ó} \text{š} \text{©} \text{F} \text{ã} 7 \text{M} \text{ö} \text{Ñ} \text{>} \text{Å} \text{"} \text{P} \text{÷} \text{ø} \text{Q} \text{»} \text{í} \text{Ì} \text{Q} \text{u} \text{ú} \text{©} 4 \text{÷} \text{A} \text{B} \text{Ñ} \text{\$} \text{š} \text{ú} \text{ú} \text{ý} \text{ø} < \text{í} \text{©} \text{è} \text{v} \text{A} \text{B} \text{^} \text{¬} \text{ª} \text{ã} \text{S} \text{©} \text{p} \text{—} \text{J} \text{Y} \text{ý} \text{ì} \text{Ó} \text{+} \text{š}, \text{ã} 7 \text{Ó}$

[á¶•—]

1. $\text{¶} \text{æ} \text{Æ} \cdot \text{Ž} \text{¶} \text{©} \text{ª} \text{"} \text{š} \text{Æ} \cdot \text{Ž} \text{\$} \text{è} \text{v} \text{õ}, \text{¶} \text{È} \text{Û} \text{©} \text{+} \text{š} \text{š} \text{†} \text{P} \text{è} / \text{,} \text{¶} \text{õ} \text{>} \text{Å} \text{š} \text{»} \text{©} \text{³} \text{P} \text{õ}, \text{¶} \text{Ó}$

2. $\text{A} \text{B} \text{†} \text{μ} \text{s} \text{³} < \text{,} \text{¶} \text{Ñ} < \text{œ} \text{í} < \text{Ó} \text{í} < \text{ª} \text{F} \text{á} \text{ã} \text{õ} \text{Ô} \text{N} \text{©} \text{š} \text{õ} \text{S} \text{°} \text{Í} \text{°} \text{A} \text{B} \text{õ} \text{μ} \text{,} \text{ã} \text{ã} \text{ã} \text{Ó} \text{Ó} \text{Ó} \% \text{¬} \text{,} \text{ã} \text{Ñ} < \text{œ} \text{í} < \text{M} \text{Ì} \text{M} \text{©} \text{+} \text{,} \text{¶} \text{™} \text{õ} \text{ã} \text{ã} \text{ì} \text{í} \text{Ó}, \text{¶} \text{ã} \text{ã} \text{ò} \text{š} \text{P} \text{B} \text{S} \text{Ó}$

3. $\text{\$} \text{Š}, \text{¶} \text{ª} \text{Ò} \text{F} \text{; } \text{¢} \text{E} \text{\$} \text{,} \text{¶} \text{œ} \text{Ñ} \text{©} \text{ú} \text{ü} \text{—} \text{®} \text{³} \text{A} \text{B} \text{B} \text{Ô} \text{Í} \text{•} \text{©} \text{,} \text{—} \text{,} \text{¶} \text{Ó}$

4. $\text{š} \text{x} \text{Æ} \text{Ç} \text{È} \text{m} \text{õ} \text{õ} \text{Å} \text{Å} \text{Å} \text{À} \text{Ì} \text{Å} \text{Å} \text{p} \text{^} \text{È} \text{>} \text{Å} \text{ó} \text{«} \text{x} \text{œ} \text{Q} \text{õ} \text{w} \text{!} \text{"} \text{A} \text{B} \text{^} \text{¬} \text{\#} \text{í} \text{Ó}$

5. $\text{,} \text{¶} \text{P} \text{Ä} \text{Ä} \text{È} \text{È} \text{È} \text{¾} \text{©} \text{"} \text{P} \text{k}, \text{¶} \text{È} \text{\$} \text{"} \text{g} \% \text{©} \% \text{•} \text{Ä} \text{Ä} \text{\&} \text{ž} \text{Ä} \text{Ä} \text{Ø} \text{»} \text{ž} \text{V}, \text{N} \text{O} \text{(} \text{©} \text{\$} 4 \text{>} \text{Å} \text{F} \text{Š} < \text{ª} \text{±} \text{õ}) \text{*} \text{Ó}$

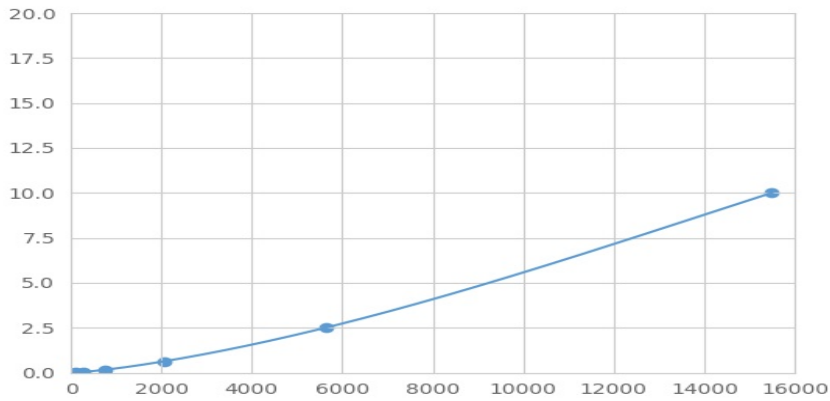
6. $\text{+} \text{\} \text{f}, \text{Ì} \text{t} \text{Á} \text{f}, \text{©} \text{,} \text{—} \text{.} \text{÷} / \text{.} \text{t} \text{Á} \text{f}, \text{©} \text{>} \text{Å} \text{"} \text{P} \text{X} \text{¶} \text{L} \text{ã} \text{\$} \text{š} \text{õ} \text{Š} < \text{¹} \text{†} \text{÷} \text{O} 1 \text{¹} \text{†} \text{ª} 2 \text{ã} \text{©} \text{ž} \text{ª} \text{Ý} \text{Š} < \text{±} \text{Ó}$

7. $\text{ú} \text{ü} \text{š} \text{z} \{ \text{,} \text{¶} \text{©} \text{*} \text{N} \text{O} \text{M} 3 \text{>} \text{Å} \text{ó} \text{"} \text{f}, 4 \text{Ç} \text{Ì} 5 \cdot \text{ž} \text{!} \text{"} \text{A} \text{B} \text{^} \text{¬} \text{\#} \text{í} \text{Ó}$

[6h78]

1. $3 \text{A} \text{B} \text{Ú} \text{õ} \text{È} \text{Û} \text{Ó} \text{Ž} \text{w} 200 \text{ul} \text{è} \text{é} \text{è} \text{è} \text{È} \text{š} 4 \text{³} 9 \text{©} \text{\#}: \text{O} \text{F} \text{á} \text{Ú} \text{ý} \text{È} \text{Z}; \text{; } 10 \text{è}] \text{©} \text{œ} \text{O} \text{Ö} \text{È} \text{Û} \text{Ó} \text{È} \text{†} \text{©} \text{_} \text{>} \text{š} \text{«} \text{Ž}, 6 \text{h} \text{Ó}$

2. $\text{Ž}, \text{•} \text{è} \text{Ý} \text{ó} \text{á} \text{ã} \text{Û} \text{ž} < \text{,} \text{ã} \text{Û} \text{ž} \text{Û}, \text{Û} \text{Ó} \text{ö} \text{á} \text{ã} \text{Û} 7 \text{Û} \text{©} \text{~} \text{D} \text{Ž} \text{w} 100 \text{Ñ} \text{L} \text{ª} \text{j} \text{í} < \text{õ} \text{á} \text{ã} \text{ã} \text{Û} < \text{Æ} \cdot \text{ã} \text{ó} 2 \text{P} \text{Ó} \text{Û}, \text{Û} \text{Ž} 100 \text{Ñ} \text{L} \text{á} \text{ã} \text{ã} \text{ã} \text{ã} \text{È} \text{Û} < \text{Æ} \cdot \text{ã} \text{ó} \text{°} = 7 \text{μ} \text{O} \text{±} \text{P} \text{©} 6 \text{Û} \text{Ž} < \text{,} \text{ã} \text{Û} \text{Ì} \text{ã} \text{ã} \text{O} \text{õ}, \text{ã} \text{P} 100 \text{Ñ} \text{L} \text{©} \text{É} \text{Û} \text{Ž} 10 \text{ul} \cdot \text{ç} \text{©} \text{á} \text{Ú} \text{Ž} \text{È} \text{B} \text{à} \text{©} 375 \text{C} \text{á} \text{Ú} \text{ý}; \text{ñ} 1 \text{¼} \text{N} \text{©} \text{Í} \text{>} \text{?} \text{ö} 7 \text{P} 800 \text{rpm} \text{©} \text{@} 2 \text{—} 4 \text{mm} \text{©} \text{A} \text{B} \cdot \text{ç} \text{š} 4 \text{Ó}$



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0.01-10ng/mL.

[μ Š< " _____]

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[_____' _____ • _____]

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> Ó ĩ • CV<10%
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[U° • _____]

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< ÷; ñ = ç Ó ĩ D j ± AB ĩ J - ® 6h> § ĩ P ĩ ĩ Ó

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1 ĩ AB † á â ã ĩ Ę• ÷ , ¶ á ô E
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