

€• , f „ ... † ≠ 1(VCAM1) ^ % Š< Œ
 (• Ž • • Luminex' ' ≠ " " •)
 — — ~ ™ Š>
 œ—• ž Ÿ

| ♦ E ☰ ¥œ—| §—“ ⊙^ « ¬!

- (® -

[° ± 2 —]

3 Š< Œ` —μ¶ ♦ “ ” • . , %o. > € 1 ° € » ° ¼½¾» ° , f ġ ÅÅ° , f ÅÄÄ 1 ÅÆÇÈ È ~ ™ A¢
 È VCAM1 È , 1

[Š< ŒÍ Î]

Š< ŒÍ Î	N.	Š< ŒÍ Î	N.
96ØÓØØÖ×Ø	1	96ØÓÙÚ	4
ÛÜÝ	2	ÛÜÝPBÁ	1à 20mL
• á	1	† â ä ä Á	1à 20mL
^ %oå ÅA	1à 120æL	^ %oPBÁA	1à 12mL
^ %oå ÁBÖPE-SAØ	1à 120æL	^ %oPBÁB	1à 12mL
ç Á	1à 10mL	è é ê ÁÖ30à Ø	1à 20mL
œ—• ž Ÿ	1		

[ë ï í î ï í ð Š<]

- 1° Luminex MAGPI Xñ | Luminex 100ò | Luminex 200ò | ÅBi o-Radñ, Bi o-Plexñ† å ö Øôööööœ—÷ø÷° ù, úûüì ^ ýþ ÜØ
- 2° ' ýÅ ý• , Åöö
- 3° PB Yî EP• .
- 4° Å ≠
- 5° •
- 6° éÅî î ö
- 7° 0.01mol /L Ø1à Ø å ä (PBS) | pH=7.0-7.2
- 8° ö
- 9° ÚØ ö

[Š< ŒÍ Ø ±]

1° $\hat{\text{S}} \leftarrow \text{ES}$ $\text{S} \leftarrow \text{S} ! \hat{\text{U}}^{\text{H}}$ $\text{A} \# \$ \mid \% \& \mid () \hat{\text{S}} \leftarrow \text{E}^* \% + , - \hat{\text{U}} \hat{\text{U}} \hat{\text{Y}} \hat{\text{o}} \hat{\text{v}} \% \text{aa} \hat{\text{AA}}$
 $\hat{\text{o}} \hat{\text{v}} \% \text{aa} \hat{\text{AB}}$. $\hat{\text{O}} \hat{\text{9}} \hat{\text{O}} \hat{\text{O}} \hat{\text{S}} \hat{\text{v}} \hat{\text{-}} \hat{\text{2}} \hat{\text{0}} / \text{C} \mid \text{E} \hat{\text{O}} \hat{\text{S}} \hat{\text{v}} \% \text{1} \hat{\text{v}} \hat{\text{4}} / \text{C} \$ \mid \hat{\text{-}}$
 2° $\text{oe} \leftarrow \text{*} \hat{\text{S}} \leftarrow \text{ES}$ $2 \hat{\text{0}} \hat{\text{S}} \hat{\text{v}} \hat{\text{3}} \hat{\text{e}} \hat{\text{4}} \hat{\text{S}} \leftarrow \text{!} \hat{\text{U}}^{\text{H}}$ $\# \hat{\text{1}} \hat{\text{5}} \hat{\text{6}} \$ \mid \hat{\text{&}}$
 $\hat{\text{S}} \leftarrow \text{E} \hat{\text{f}} \hat{\text{v}} \hat{\text{0}} \hat{\text{7}} \hat{\text{8}} \hat{\text{9}} \hat{\text{:}} \mid \hat{\text{;}} \hat{\text{<}} \hat{\text{e}} = \hat{\text{8}} \hat{\text{t}} \hat{\text{>}} \text{oe} \leftarrow \text{*} \hat{\text{1}} \hat{\text{2}} \hat{\text{0}} \hat{\text{S}} \leftarrow \text{E} \hat{\text{O}} \hat{\text{O}} @ \text{A} \hat{\text{>}}$; $\hat{\text{<}} \hat{\text{*}} \hat{\text{1}} \text{B} \hat{\text{C}} \hat{\text{f}} \hat{\text{&}}$ $\text{DE} \hat{\text{1}} \hat{\text{F}}$
 $\hat{\text{Y}} \hat{\text{G}} \hat{\text{±}} \hat{\text{H}} \hat{\text{I}} \hat{\text{.}}$ $\text{E} \hat{\text{f}} \hat{\text{A}} \hat{\text{1}} \hat{\text{U}} \hat{\text{v}} \hat{\text{J}} \hat{\text{U}} \mid \hat{\text{S}} \hat{\text{K}} \hat{\text{±}} \hat{\text{1}} \hat{\text{v}} \hat{\text{1}} \hat{\text{4}} \hat{\text{t}} \hat{\text{L}} \hat{\text{M}} \hat{\text{S}} \hat{\text{N}} \hat{\text{O}} \hat{\text{.}}$ $\hat{\text{1}} \hat{\text{1}}$

[Ü³ ï PQR\$]

$\hat{\text{€}} \hat{\text{1}} \hat{\text{S}} \leftarrow \text{(Q} \hat{\text{v}} \hat{\text{€}} \hat{\text{1}} \hat{\text{t}} \hat{\text{•}} \hat{\text{E}} \hat{\text{1}} \hat{\text{S}} \hat{\text{€}} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{@}} \text{T} \hat{\text{5}} \hat{\text{v}} \hat{\text{1}} \hat{\text{2}} \hat{\text{U}} \hat{\text{H}} \hat{\text{A}} \hat{\text{4}} / \text{CGV} \mid \text{W}^* \hat{\text{1}} \hat{\text{,000}} \hat{\text{a}} \hat{\text{g}} \hat{\text{v}} \hat{\text{20}} \hat{\text{t}} \hat{\text{X}} \mid \hat{\text{Y}} \hat{\text{A}} \hat{\text{1}} \hat{\text{Z}} \hat{\text{8}} \mid \hat{\text{-}} \hat{\text{A}} \hat{\text{1}} \hat{\text{1}} \hat{\text{v}} \hat{\text{20}} \hat{\text{/}} \hat{\text{C}} \hat{\text{A}} \hat{\text{-}} \hat{\text{80}} \hat{\text{/}} \hat{\text{C}} \hat{\text{S}} \hat{\text{v}} \hat{\text{[}} \hat{\text{\textbackslash}} \hat{\text{]}} \hat{\text{^}} \hat{\text{_}} \hat{\text{`}} \hat{\text{1}}$
 $\hat{\text{€}} \hat{\text{»}} \hat{\text{S}} \hat{\text{-}} \hat{\text{EDTA}} \hat{\text{A}} \hat{\text{a}} \hat{\text{b}} \hat{\text{c}} \hat{\text{J}} \hat{\text{¶}} \hat{\text{d}} \hat{\text{<}} \hat{\text{P}} \hat{\text{Q}} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{v}} \hat{\text{ú}} \hat{\text{-}} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{@}} \text{PQ} \hat{\text{*}} \hat{\text{1}} \hat{\text{30}} \hat{\text{t}} \hat{\text{X}} \hat{\text{f}} \hat{\text{v}} \hat{\text{2}} \hat{\text{-}} \hat{\text{8}} \hat{\text{/}} \hat{\text{C}} \hat{\text{1}} \hat{\text{,000}} \hat{\text{a}} \hat{\text{g}} \hat{\text{v}} \hat{\text{15}} \hat{\text{t}} \hat{\text{X}} \mid \hat{\text{Y}} \hat{\text{A}} \hat{\text{1}} \hat{\text{Z}} \hat{\text{8}} \hat{\text{^}} \hat{\text{%}} \hat{\text{1}} \hat{\text{A}} \hat{\text{-}} \hat{\text{A}} \hat{\text{1}} \hat{\text{1}} \hat{\text{v}} \hat{\text{20}} \hat{\text{/}} \hat{\text{C}} \hat{\text{A}} \hat{\text{-}} \hat{\text{80}} \hat{\text{/}} \hat{\text{C}} \hat{\text{S}} \hat{\text{v}} \hat{\text{[}} \hat{\text{\textbackslash}} \hat{\text{]}} \hat{\text{^}} \hat{\text{_}} \hat{\text{`}} \hat{\text{1}}$
 $\hat{\text{1}} \hat{\text{4}} \hat{\text{1}} \hat{\text{2}} \hat{\text{3}} \hat{\text{4}} \hat{\text{»}} \hat{\text{S}} \hat{\text{S}} \hat{\text{e}} \hat{\text{f}} \hat{\text{g}} \hat{\text{1}} \hat{\text{1}} \hat{\text{4}} \hat{\text{1}} \hat{\text{2}} \hat{\text{h}} \hat{\text{1}} \hat{\text{3}} \hat{\text{4}} \hat{\text{»}} \hat{\text{1}} \hat{\text{i}} \hat{\text{•}} \hat{\text{j}} \hat{\text{S}} \hat{\text{e}}$
 $\hat{\text{1}} \hat{\text{0}} \hat{\text{Y}} \hat{\text{-}} \hat{\text{,}} \hat{\text{1}} \hat{\text{4}} \hat{\text{1}} \hat{\text{2}} \hat{\text{k}} \hat{\text{v}} \hat{\text{@}} \hat{\text{°}} \hat{\text{1}} \hat{\text{P}} \hat{\text{B}} \hat{\text{S}} \hat{\text{0}} \hat{\text{.01}} \hat{\text{mol}} \hat{\text{/}} \hat{\text{L}} \hat{\text{1}} \hat{\text{pH}} \hat{\text{=}} \hat{\text{7.0}} \hat{\text{-}} \hat{\text{7.2}} \hat{\text{Ø}} \hat{\text{E}} \hat{\text{1}} \hat{\text{é}} \hat{\text{m}} \hat{\text{€}} \hat{\text{A}} \hat{\text{1}} \hat{\text{3}} \hat{\text{4}} \hat{\text{»}} \hat{\text{÷}} \hat{\text{n}} \hat{\text{D}} \hat{\text{o}} \hat{\text{1}}$
 $\hat{\text{2}} \hat{\text{Ø}} \hat{\text{-}} \hat{\text{1}} \hat{\text{4}} \hat{\text{1}} \hat{\text{2}} \hat{\text{p}} \hat{\text{q}} \hat{\text{U}} \hat{\text{k}} \hat{\text{v}} \hat{\text{3}} \hat{\text{4}} \hat{\text{1}} \hat{\text{r}} \hat{\text{1}} \hat{\text{@}} \hat{\text{s}} \hat{\text{Ä}} \hat{\text{1}} \hat{\text{t}} \hat{\text{u}} \hat{\text{v}} \hat{\text{z}} \hat{\text{A}} \hat{\text{ä}} \hat{\text{ä}} \hat{\text{A}} \hat{\text{(wxIS007)}} \hat{\text{2}} \hat{\text{y}} \hat{\text{z}} \hat{\text{1}} \hat{\text{Ü}} \hat{\text{1}} \hat{\text{Ö}} \hat{\text{1}} \hat{\text{,}} \hat{\text{f}} \hat{\text{·}} \hat{\text{~}} \hat{\text{•}} \hat{\text{€}} \hat{\text{S}} \hat{\text{e}} \hat{\text{f}} \hat{\text{g}} \hat{\text{1}} \hat{\text{ä}} \hat{\text{ä}} \hat{\text{A}} \hat{\text{)1}} \hat{\text{•}} \hat{\text{,}} \hat{\text{K}} \hat{\text{ö}} \hat{\text{E}} \hat{\text{O}} \hat{\text{•}} \hat{\text{U}} \hat{\text{1}} \hat{\text{1}} \hat{\text{4}} \hat{\text{1}} \hat{\text{f}} \hat{\text{,}} \hat{\text{...}} \hat{\text{+}} \hat{\text{Ø}} \hat{\text{1}} \hat{\text{OK}} \hat{\text{,}} \hat{\text{f}} \hat{\text{‡}} \hat{\text{^}} \hat{\text{=}} \hat{\text{1}} \hat{\text{20}} \hat{\text{-}} \hat{\text{1}} \hat{\text{50}} \hat{\text{1}} \hat{\text{%}} \hat{\text{...}} \hat{\text{S}} \hat{\text{1}} \hat{\text{mL}} \hat{\text{z}} \hat{\text{A}} \hat{\text{ä}} \hat{\text{ä}} \hat{\text{A}} \hat{\text{E}} \hat{\text{S}} \hat{\text{r}} \hat{\text{20}} \hat{\text{-}} \hat{\text{50}} \hat{\text{mg}} \hat{\text{1}} \hat{\text{4}} \hat{\text{1}} \hat{\text{3}} \hat{\text{1}} \hat{\text{Ø}}$
 $\hat{\text{3}} \hat{\text{Ø}} \hat{\text{-}} \hat{\text{1}} \hat{\text{)}} \hat{\text{1}} \hat{\text{E}} \hat{\text{•}} \hat{\text{A}} \hat{\text{ž}} \hat{\text{G}} \hat{\text{•}} \hat{\text{•}} \hat{\text{•}} \hat{\text{•}} \hat{\text{•}} \hat{\text{1}} \hat{\text{1}}$
 $\hat{\text{4}} \hat{\text{Ø}} \hat{\text{-}} \hat{\text{h}} \hat{\text{1}} \hat{\text{Ü}} \hat{\text{1}} \hat{\text{3}} \hat{\text{4}} \hat{\text{»}} \hat{\text{A}} \hat{\text{10}} \hat{\text{,000}} \hat{\text{a}} \hat{\text{g}} \hat{\text{v}} \hat{\text{5}} \hat{\text{t}} \hat{\text{X}} \mid \hat{\text{•}} \hat{\text{-}} \hat{\text{-}} \mid \hat{\text{A}} \hat{\text{1}} \hat{\text{Z}} \hat{\text{8}} \hat{\text{-}} \hat{\text{^}} \hat{\text{%}} \hat{\text{A}} \hat{\text{1}} \hat{\text{1}} \hat{\text{v}} \hat{\text{20}} \hat{\text{/}} \hat{\text{C}} \hat{\text{~}} \hat{\text{1}} \hat{\text{1}}$
 $, \hat{\text{f}} \hat{\text{z}} \hat{\text{A}} \hat{\text{A}} \hat{\text{S}} \hat{\text{@}} \hat{\text{t}} \hat{\text{a}} \hat{\text{S}} \hat{\text{<}} \hat{\text{TM}} \hat{\text{÷}} \hat{\text{1}} \hat{\text{,}} \hat{\text{f}} \hat{\text{e}} \hat{\text{š}} \hat{\text{-}} \hat{\text{~}} \hat{\text{i}} \hat{\text{•}} \hat{\text{•}} \hat{\text{•}} \hat{\text{S}}$
 $\hat{\text{1}} \hat{\text{Ø}} \hat{\text{-}} \hat{\text{oe}} \hat{\text{,}} \hat{\text{f}} \hat{\text{2}} \hat{\text{•}} \hat{\text{-}} \hat{\text{l}} \hat{\text{P}} \hat{\text{B}} \hat{\text{S}} \hat{\text{z}} \hat{\text{z}} \hat{\text{1}} \hat{\text{é}} \hat{\text{1}} \hat{\text{W}} \hat{\text{*}} \hat{\text{-}} \hat{\text{Y}} \hat{\text{|}} \hat{\text{O}} \hat{\text{1}} \hat{\text{1}} \hat{\text{v}} \hat{\text{1}} \hat{\text{000}} \hat{\text{a}} \hat{\text{g}} \hat{\text{v}} \hat{\text{5}} \hat{\text{t}} \hat{\text{X}} \hat{\text{*}} \hat{\text{(Q}} \hat{\text{1}} \hat{\text{O}} \hat{\text{E}} \hat{\text{C}} \hat{\text{,}} \hat{\text{f}} \hat{\text{8}} \hat{\text{E}} \hat{\text{G}} \hat{\text{1}} \hat{\text{ø}} \hat{\text{Y}} \hat{\text{(Q}} \hat{\text{1}} \hat{\text{1}}$
 $\hat{\text{2}} \hat{\text{Ø}} \hat{\text{-}} \hat{\text{(Q}} \hat{\text{1}} \hat{\text{1}} \hat{\text{f}} \hat{\text{-}} \hat{\text{l}} \hat{\text{P}} \hat{\text{B}} \hat{\text{S}} \hat{\text{e}} \hat{\text{3}} \hat{\text{>}} \hat{\text{?}}$
 $\hat{\text{3}} \hat{\text{Ø}} \hat{\text{-}} \hat{\text{,}} \hat{\text{f}} \hat{\text{-}} \hat{\text{u}} \hat{\text{v}} \hat{\text{z}} \hat{\text{A}} \hat{\text{ä}} \hat{\text{ä}} \hat{\text{A}} \hat{\text{o}} \hat{\text{E}} \hat{\text{1}} \hat{\text{6}} \hat{\text{J}} \hat{\text{107B}} \hat{\text{,}} \hat{\text{f}} \hat{\text{/}} \hat{\text{S}} \hat{\text{1}} \hat{\text{...}} \hat{\text{©}} \hat{\text{e}} \hat{\text{1}} \hat{\text{,}} \hat{\text{f}} \hat{\text{8}} \hat{\text{1}} \hat{\text{a}} \hat{\text{«}} \hat{\text{•}} \hat{\text{•}} \hat{\text{-}} \hat{\text{'}} \hat{\text{•}} \hat{\text{•}} \hat{\text{a}} \hat{\text{A}} \hat{\text{1}} \hat{\text{1}}$
 $\hat{\text{4}} \hat{\text{Ø}} \hat{\text{-}} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{1}} \hat{\text{2}} \hat{\text{-}} \hat{\text{C}} \hat{\text{1}} \hat{\text{,500}} \hat{\text{a}} \hat{\text{g}} \hat{\text{v}} \hat{\text{10}} \hat{\text{t}} \hat{\text{X}} \mid \hat{\text{•}} \hat{\text{-}} \hat{\text{-}} \mid \hat{\text{A}} \hat{\text{1}} \hat{\text{Z}} \hat{\text{8}} \hat{\text{-}} \hat{\text{^}} \hat{\text{%}} \hat{\text{A}} \hat{\text{1}} \hat{\text{1}} \hat{\text{v}} \hat{\text{20}} \hat{\text{/}} \hat{\text{C}} \hat{\text{~}} \hat{\text{1}} \hat{\text{1}}$
 $, \hat{\text{f}} \hat{\text{A}} \hat{\text{A}} \hat{\text{A}} \hat{\text{1}} \hat{\text{A}} \hat{\text{æ}} \hat{\text{ç}} \hat{\text{~}} \hat{\text{TM}} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{1}} \hat{\text{,000}} \hat{\text{a}} \hat{\text{g}} \hat{\text{v}} \hat{\text{20}} \hat{\text{t}} \hat{\text{X}} \mid \hat{\text{Y}} \hat{\text{A}} \hat{\text{1}} \hat{\text{Z}} \hat{\text{8}} \hat{\text{^}} \hat{\text{%}} \hat{\text{1}} \hat{\text{A}} \hat{\text{-}} \hat{\text{A}} \hat{\text{1}} \hat{\text{1}} \hat{\text{v}} \hat{\text{20}} \hat{\text{/}} \hat{\text{C}} \hat{\text{A}} \hat{\text{-}} \hat{\text{80}} \hat{\text{/}} \hat{\text{C}} \hat{\text{S}} \hat{\text{1}} \hat{\text{[}} \hat{\text{\textbackslash}} \hat{\text{]}} \hat{\text{^}} \hat{\text{_}} \hat{\text{`}} \hat{\text{1}}$
 $\hat{\text{&}} \hat{\text{1}} \hat{\text{S}}$
 $\hat{\text{1}} \hat{\text{°}} \hat{\text{.}} \hat{\text{A}} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{1}} \hat{\text{e}} \hat{\text{1}} \hat{\text{1}} \hat{\text{\$}} \hat{\text{1}} \hat{\text{4}} \hat{\text{/}} \hat{\text{C}} \hat{\text{S}} \hat{\text{1}} \hat{\text{U}} \hat{\text{1}} \hat{\text{-}} \hat{\text{1}} \hat{\text{-}} \hat{\text{20}} \hat{\text{/}} \hat{\text{C}} \hat{\text{S}} \hat{\text{1}} \hat{\text{G}} \hat{\text{1}} \hat{\text{B}} \hat{\text{C}} \hat{\text{1}} \hat{\text{-}} \hat{\text{80}} \hat{\text{/}} \hat{\text{C}} \hat{\text{S}} \hat{\text{1}} \hat{\text{G}} \hat{\text{2}} \hat{\text{B}} \hat{\text{C}} \hat{\text{1}}$
 $\hat{\text{2}} \hat{\text{°}} \hat{\text{.}} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{1}} \hat{\text{R}} \hat{\text{1}} \hat{\text{a}} \hat{\text{€}} \hat{\text{j}} \hat{\text{1}} \hat{\text{±}} \hat{\text{2}} \hat{\text{*}} \hat{\text{^}} \hat{\text{%}} \hat{\text{3}} \hat{\text{©}} \hat{\text{1}} \hat{\text{1}} \hat{\text{t}} \hat{\text{a}} \hat{\text{€}} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{1}} \hat{\text{S}} \hat{\text{1}} \hat{\text{a}} \hat{\text{«}} \hat{\text{t}} \hat{\text{μ}} \hat{\text{^}} \hat{\text{%}} \hat{\text{1}}$
 $\hat{\text{3}} \hat{\text{°}} \hat{\text{.}} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{1}} \hat{\text{oe}} \hat{\text{-}} \hat{\text{÷}} \hat{\text{2}} \hat{\text{a}} \hat{\text{¶}} \hat{\text{1}} \hat{\text{1}} \hat{\text{T}} \hat{\text{5}} \hat{\text{1}} \hat{\text{S}} \hat{\text{2}} \hat{\text{S}} \hat{\text{u}} \hat{\text{œ}} \hat{\text{TM}} \hat{\text{A}} \hat{\text{1}}$
 $\hat{\text{4}} \hat{\text{°}} \hat{\text{.}} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{1}} \hat{\text{1}} \hat{\text{^}} \hat{\text{%}} \hat{\text{N}} \hat{\text{z}} \hat{\text{1}} \hat{\text{1}} \hat{\text{»}} \hat{\text{1}} \hat{\text{4}} \hat{\text{1}} \hat{\text{2}} \hat{\text{oe}} \hat{\text{-}} \hat{\text{€}} \hat{\text{1}} \hat{\text{3}} \hat{\text{4}} \hat{\text{S}} \hat{\text{N}} \hat{\text{€}} \hat{\text{»}} \hat{\text{C}} \hat{\text{J}} \hat{\text{1}} \hat{\text{3}} \hat{\text{a}} \hat{\text{«}} \hat{\text{^}} \hat{\text{%}} \hat{\text{1}}$

[Luminex200 tâo]

1. tâo C‡ ř 50uL?
2. • • f g ř • á MagPlex;
3. ŕ • á, ř 50Å/Å;
4. MFI Å ř Medi an.

[S< Üí]

1° $\text{oe} \leftarrow \text{-} \hat{\text{-}} \hat{\text{1}} \hat{\text{S}} \leftarrow \text{y} \hat{\text{Ü}} \hat{\text{3}} \hat{\text{a}} \hat{\text{¶}} \hat{\text{1}} \hat{\text{1}} \hat{\text{T}} \hat{\text{5}} \hat{\text{1}} \hat{\text{8}} \hat{\text{-}} \hat{\text{25}} \hat{\text{/}} \hat{\text{C}} \hat{\text{Ø}} \hat{\text{1}} \hat{\text{...}} \hat{\text{©}} \hat{\text{•}} \hat{\text{S}} \leftarrow \text{E} \hat{\text{@}} \hat{\text{®}} \hat{\text{A}} \hat{\text{H}} \hat{\text{I}} \hat{\text{1}} \hat{\text{S}} \hat{\text{A}} \hat{\text{oe}} \hat{\text{-}} \hat{\text{1}} \hat{\text{1}} \hat{\text{Y}} \hat{\text{®}} \hat{\text{3}}$
 $\hat{\text{>}} \hat{\text{S}} \leftarrow \hat{\text{e}} \hat{\text{1}} \hat{\text{1}} \hat{\text{Ü}} \hat{\text{7}} \hat{\text{y}} \hat{\text{S}} \leftarrow \hat{\text{u}} \hat{\text{1}} \hat{\text{2}} \hat{\text{0}} \hat{\text{1}} \hat{\text{Ü}} \hat{\text{7}} \hat{\text{Ø}} \hat{\text{S}} \leftarrow \hat{\text{A}} \hat{\text{1}} \hat{\text{7}} \hat{\text{Æ}} \hat{\text{S}} \hat{\text{1}}$

2° ÜÜÝ(_ÇÝ)š È! ÜÜÝŠr ÜÜÝPBÁ 0.5mL; Éü* T5É 1 1 È10tX; eHž žl í Ô[\í Ŧ Ø; Æè 6J 50.0ng/mL Üí 7B PBÜÜÝí EP• | ÈBEP• ÈŠr 300DLí ÜÜÝPBÁ; ...Ñ # y >Ò^ PBq 50.0ng/mL, 12.5ng/mL, 3.12ng/mL, 0.78ng/mL, 0.2ng/mL, 0.05ng/mL, 0.01ng/mL; ÜÜÝPBÁ(0ng/mL)¤ ¥cJ ÖÖÖl J \$Ó; <³ © Ž | È>; <%œ—uî ÜÜÝå Áì

item	1	2	3	4	5	6	7	Tube
VCAM1	50.0	12.5	3.12	0.78	0.2	0.05	0	ng/mL

3° ^ %oå ÁAØ ^ %oå ÁBŠ Detection A ØDetection B@œ—÷%—ÖÖÖ~ ÅxØ " ' ' | . œÙ...@• œÅ! Éí ÁF—‡) • Üí ©—÷†Û. ^ %oPBÁAÅB 1:100PB(...š 10DL^ %oå ÁA/990DL^ %oPBÁA); ÜtÝ¾| PB÷Pz ° nBàüi È>; < ëí ï, áh(100DL/Ò)| ; ááhH² áh0.1-0.2mL

4° èéê Áš 580mL Å ‡ Šr 20mLé ê ÁÔ30à ØPB“ 600mL” ác Áè 6l &’ š

1° ÜÜÝí PBŞÄ¤ ¥@ÓÈ^a «)

2° ÜÜÝ%“ ©—÷ 15tXí áhí • ÜÜÝä Åœ—®>)

3° ÜÜÝ° ^ %oå ÁAäc Á° ^ %oå ÁBäc Á%œ—È²í PBÁah; PBÁŞÄY—l — Áåžž æç ÜtÝ¾| [\í Ŧ l J \$Ó; <³ ©í ÜMŽ%œ—• , • | úþÜ• , Áöì%yz ëí , èMáh| + , S , œ—• , áhí i • Ô... Y ^ %oå ÁAH| ®>S , U^ 10DLØ| . [\éqè6éèl

4° %i o^œ—í ŽPBGí ÜÜÝ° ^ %oå ÁAäc Áy ^ %oå ÁBäc Ál

5° éé ÁÔ30xØÈ... ³í á®| %n 5í “ T5| žžÝ¾| ”) ³í DSå Áð^a « áhí

6° Š< ÆÈñtŠ< J Á| ðóëá1qäc Á* œ—| @á1GôÈ8Ä’ J õö K, èÅ K÷ø| . Ò; <È —ùúùö6ë| éq; <³ ©S ÜM| ü” DSýéèl %œ—μ á1l

[Ü³ ' ']

1° ³þÿä Š< Æ³ | S ' œ—• Š< Æ éqí ³ ù | %œ— œ—÷ Üt) ³í 8Äœ—, | ° Üí ³|

2° ; <÷² n° %o ³ È %o™è6l è6s@ÜÜ í H| —ö M· AE . ; <í ² YPBØÑl ...© YÈ %o™è6G ÅG | % ³ û— í PBÅè l ³ PBè—PBSl

3° ^ ³ S È@• žÝ ³™È| ôö^a « ° ; <<ÓÆ Ž| ú&' ³|

4° œ—i ï ÁÁhí 1 ¼½¾» Å, fØYÁ8Äj “ i ™Kí r ; <³ ©! èl

5° ³ J , fÅÄÄ¹ | ' J • f ³ Ç" ' b# | ...š, f\$%° , fÑ, ° P HI &| . 8Ä @ ^ %o§ ®í ' (l

6°) W| ÖÅo ¼| Ö| * +, Ò- , o ¼| Ö| 8Ä’ J R³ FÝ œ—í ^ %o¶fö. / ¶f§Oá | ¾§ x ^ %o®l

7° ôöœ—uv ³ | \$ HI G18Äj ' | Ö2ÅÅ3Ž¾ ; <³ ©! èl

[4c 56]

1° - ; <Óí Èòí Šr 200ul tâää Á—. ° 7| 8* @ ÜÓ öÄT59 10tX| ™* Öçòí ÁF| Z8—“ Š 4c l

2° Š štÜí ÜÜÖ° %o YÖ° ÖÖÖl í ÜÜÖ7Ö| y>Šr 100DLSEè6í ÜÜÝÖ: Š< Üí 2 Øl ÖÖÖl 100DLÜÜÝPBÁÖ: Š< Üí - ; 5² * ®• Ø| OÖS %o YÖÅPB*í YØ100DL| Èòí 10ul• á| ÜÓŠÄÜÜ| 37/c ÜÓ ö5í 1.5UH| í <=í 1J 800rpm| >2-4mm| ?@• á- 2l

3° Ä• | 2† X* • Á¢ | • \$A† \$%~ ŒÇ| S—éê|
 4° ÈÒŠ ^ %oå ÁAā c Á100DLÔ©—÷ áhØ| ÚÓÙÚ| 37/C ÚÓ ö5i 1UH| í <=í 1
 J 800rpm| >2-4mm| ?@• á—2|
 5° Ä• | 2† X* • Á¢ | ÈÒ—200DLÍ éêÁéê| BÍ 1-2† X| • Óí Á¢l o^éÓ3>
 | 2 * ®>éê * | YAC®2Oí éêääÁ| - ÚÓCD@ EÄ| - F @Óí 1 Á¢Sñ Ç
 l t Gôf8i í • éÓGHDq|
 6° m• | ÈÒŠ ^ %oå ÁBä c ÁÔ©—÷ áhØ100DL| ÚÓÙÚ| 37/C ÚÓ ö530† X| í
 <=í 1 J 800rpm| >2-4mm| ?@• á—2|
 7° Ä• | 2† X* • Á¢ | ÈÒ—200DLÍ éêÁéê| BÍ 1-2† X| • Óí Á¢l éÓ3> | i
 • e565|
 8° m• | ÈÒŠç Á150DL| 9 2† X| œ• • | œ¢\$%| Z8ÄGJ N|
 & Š
 1° Š< Üí šÜí ®>; < ë,, í Ü7| AECí 8K• ÒÓÄ9~ || | 4• žÝ, = \$ | . í ~ >
 œ—|
 2° Š š; <4c È%œ—®>Ží LM | [\div Øí Š H&' Š, Ní F~ | - ŸŠ” ÚÓÙñ
 | +, ŠOØÖœ| žž PÍ Ÿ¾í R] ² Š< Šr ® | Š GôÈ- ®BÒR² * ®BÒŠ HI | Q+
 , UÔ®RSh@10† X. Í Ø| ...©T¹ | - j Šeí U° 5i VHI | K¾ž WX° ±) %o, Áí Ü
 MŽÐO^Ží J Y%oÅí ÜMŽ | ¼½í 1 ^Òa « ; <|
 3° 5i šJ?@ Ÿ Z|; <H%- ŠÄÉÅÙÚí ÚÓ1” 7ŒÍ | . [\Á¢ Z| éÓ* 2 +, a «
 ~ 54c | [\H] L² [\ ÚÓ’ ” Ç^\$%| eH² _ ` abc. í 5i HI ý56|
 4° éêšÜtéêdeo, | @È>éêGôÈ| L, - éêÁDSÖÇl ...©œ—í éÓG| %@f gœ—
 * Õ—“ hi ; <GôÈ|
 5° ...©; <TÍ 76 ” 60%; ¼½œ—Š7ØØ 76 j |

[; < + ']

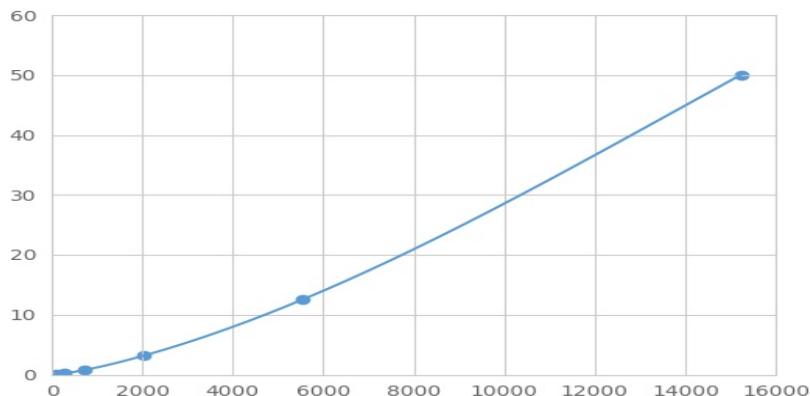
- VCAM1¶¢ x” • Ž•• kI | hqmÈn¢| o•• È† ÜŠr ÜÜÝÅÙ³ | ÆÈVCAM1Rp¥” mÈn
 ¢Äí ¶¢³ q| W* Šr ~™b; í VCAM1¶¢| @- ³ qí ~™b; ¶¢éö* | Šr PEÜr í sýb| PE
 x t Z* | Pz MFIÅÔMedian Fluorescence IntensityØí ¹ Uý ŸÈí VCAM1è6I hÈÉí —Luminex†
 àó%o. | Bä Ÿè6|

[Bä]

uÜÜÝð ³ MFIÅDmÖÖÖMFIÅ* c ÑÔv wÑØ| ...í 1 ^Ò| x² YÆj ÅBäí . ÜÜÝí è6
 J yz ÜÖÅ Ñz ÜØ| MFIÅJ { z ÜÖÅ Ñz ÜØ| | ®ÜÜ Ö² i ôi ² y} ~i ôBäí R2Å
 H| . R2Å• €• ” 1J üØí ¼½œ—, fhc „, Æa « tâ| ...curve expert 1.30| Pz ŸMFIÅ|
 ÜÜ ...®È²í è6| †. PØÖÑ? Å—ÜÜ™í è6RMFIÅBä®ÜÜ í } ~i ôi | - Ÿí
 MFIÅ‡r i ôi | Bä® Ÿè6| ð†. PØÖÑ| ZJ Ÿí ; åè6|

[^gÑz]

J Y%o Bä| +• è6Jí 3, ¾MFIÅJ' 3, | ° » | ÑH3P—ÜÜÝí MFIÅCJ { z ÜÖXØ| ÜÜ
 Ÿí è6J yz ÜÖYØØ| eHJ YŠ<³ ©í å< Ž| ÑÈØ| í N+ŒÑz ¾d ÑÄí ¼½œ— ÑÄô
 • ÜÜ Ñí ” ; <4c 7Æí ŠeÔ...4c ° ÁŽ• ° éÓŽ• ý567Æ&Ø| ÜÜ í MFIÅj
 è•í øj í ÜÜ i' | ; < ë,, Pz í í í ; <ð• ÜÜ í



(€• , f „ ...†‡1)^‰ Š<ŒÜÜ

[^‰]

0.05-50ng/mL.

[2 ^‰']

† ÅJ 20BÖÖ ŸÖZ ÜÜÝPBAØ‰. † j ÅŠ; ØÜÜë 2† è6l

[• Ž]

4° • éÓ3>?

5° Š^ %oå ÁB100DL| 37/C Í .. i 30† X?

6° • éÓ3>?

7° ŠçÁ150DL| 9 2† X* J Ñl

[• ž]

1° .. - 7Æð© ž• j ^ ŠÄ i w« øj ī + -^a « Šl ī - · R†â | ^ FÝ8Ä @® · ī K, ž• ®- l

2° 2° ī ; <³ ©RŠ< ī ž° ; < ī ÈÉ4c. ð; <¢£| pÈÉ| %• Üí Ü ī Ü³ ī > l

3° Šeš> ī e®FÝ8Äj | ±ëÜ| ...š^ %o' ° 2 3 6| %yzŠ< Æí • žÝ^ « ; <4c| ^ μ¶ ±-• žÝ c' l

4° ³ Š< Æá· Š< á· oe—| ŠÄÝ—Æ, hē « ī FÝl ä _ ` ab³ Š< Æí ; <• ž¹ j <) ² ī ^ %o³ ©l

5° @ ð5i GôÈ[\ - Š< ° » @½½Èl Š< ! É È¾. ?@ Zý • ~ ^TM ÷ø| ' J | Ö A ī Ç" - %oÂ§ ÜMl

6° ž Åi ÁÓÓÒÈ8Äj | ± ^TMK| tJhe^- Å| Šj ; <³ ©éq[\ ° ±l ÜÓ@oe— HK t ÄÄY®| %ì ø÷Y®l

7° .. 4c Šf g° 4cÅéÅýé• —J ÑóôÆ&L 8Ä ýé³ ©í F~ l ; < ÷ %Ç, ÈJ • ž YúÉŠöö l

8° @ ³ hí . ð4cî ÈBGôÈî 3i L8Ä Šeî ; <³ ©| . J Yø ; <³ ©í 8o^ž| ; < ī È®54cLë, _ ` Shl

9° Š< Æ@®È ÷ žG_` K^| È .. ī 7Æðu; < T 7Æë• | 8Äj éq; <³ ©R®È³ ©S® ÅŠeš> Š< Æšl èí ¹ ī ' (l

10° ³ Š< Æ RÆ, Èí ef Š< ÆÅŠei • ^ %oe®{ ī ^TMl FÝu ^ | . Št m^ %o³ ©S® ī ' (l

11° .. hí Š< ÆÈ¶çî \D+ÈeJ o ¼| Ö| È .. ī o ¼| Ö • Yî ÑÃ° k Ò™Ó° ŏj ii & u Še| . ° » " • \$Ó• Š< Æ8—“Æ, þýo ¼| Öi ^ %o| Èe° » f Šööœ—Š< Æ^ %o o ¼| Öl

12° %° Ö YÈ %o™i è6| Å ī B° ; < M. Y^ %oè6l Ö ī ' ' 8. ?@ ³ È ^ ^TMÈ , • ®Š< Æ^ %o l

13° • Š< Æ8Äš—“® ; <³ ž ŠM· ī Ö; < Yî ^ %o| %o...| , ' x m; < &l

14° ³ 4c• ž e —“ 48TŠ< Æl

15° • Š< Æ i ø¥œ—| ...-Æ—“ ©a « -Å[\Æ, -Ø| ° þý- Š ' t F~ ī ÜÚ | Ü§ Ü Y[\ • þ [l

[ÜÚÀß]

ÜÚ	8Ä+'	Àà i á
ÜÜ	ÜÜÝÜí ŠhM	a « hMî ÜÜÝâ 6þß
ÜÜ ē	YðééëŠÜt	Ü†í Yðééë
	ÁŠèM	^ ...ýþh Áö

è 6	• áééšÜt	• ž Ÿ „ = Üt 9 ééý Bl
	Ý¾šÜt y YŠ< š	Üt Ý¾y YŠ<
	o^š— °î öyÙÙ	œ—š ö „ åäuî ° œ— uî î öyÙÙ
	š šèM	^ ...ýþh Áö
MFIÄ	ÈØŠí Š<, šèM	þh Áö èMŠr Š<
	5i HI šhM	\$ÓÜ î 5i HI
	5i 56šhM	š< „ j . " T5ú\$ÓÜMî 5 i 56
	PEÜr ™Å	ãäš<
	PEÜr ™PØØNS	4 • ž Ÿ; < 4c
	• ®J ÑHI J Ñ	@ • ž Ÿ ¼½î J ÑHI Í J Ñ
³ Ä	šhMî ³ i i	hM ³ œ—uv ³ a < ; <
	šhMî ³ (Qý' ' i •	PYhMî ³ (Qý' ' i •
	%™K@ ³ È È,	œ—uv ³ o^; <