



ELK 1HS

Serum, plasma

7.423 pg/mL

7.81-500 pg/mL

CP

		48T	96T	
	Pre-coated Microplate	6 x 8	12 x 8	4°C/-20°C
	Standard (lyophilized)	1	2	4°C/-20°C
&	Standard/Sample Diluent Buffer	10 mL	20 mL	4°C/-20°C
100×	Biotinylated Antibody (100×)	60 μL	120 μL	4°C/-20°C
	Biotinylated Antibody Diluent	6 mL	12 mL	4°C/-20°C
HRP 100×	Streptavidin-HRP (100×)	60 μL	120 μL	4°C/-20°C
	HRP Diluent	6 mL	12 mL	4°C/-20°C
25×	Wash Buffer (25×)	10 mL	20 mL	4°C/-20°C
TMB	TMB Substrate Solution	6 mL	10 mL	4°C/-20°C(
	Stop Reagent	3 mL	6 mL	4°C/-20°C
	Plate Covers	1	2	
	Instruction Manual	1	1	

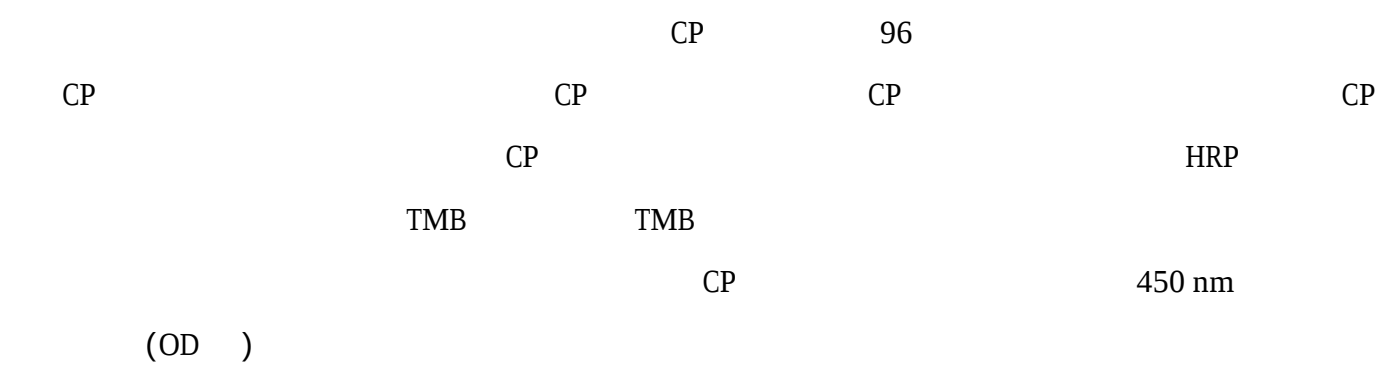


- 1.
2. * 4°C 1 1
 HRP -20°C 4°C 6
 * 4°C 6 -20°C 1

3. -20°C 4°C

- 4.
- 5.
- 6.
1. 450 nm
- 2.
- 3.
- 4.
5. EP 0.5-10 μL 2-20 μL 20-200 μL 200-1000 μL
- 6.

- 1.
- 2.
3. TMB





1. 2 4°C 1000×g 20
-20°C -80°C
2. 30 2-8°C 1000×g 15
EDTA-Na₂ -20°C -80°C
3. PBS 0.01M pH7.0-7.2
PBS 1:9
PBS 1%
2
5000×g 5-10
BC016 BCA
4. 1000×g 20
-20°C -80°C
5. 24 2000×g 15
-20°C
6. 2-8°C, 1000×g 15
-20°C
7. 1000×g 20
- 1.
2. 1 4°C
-20°C 1 -80°C 3-6



*

1. 50 5 μ L 245 μ L & 50

2. 100 5 μ L 495 μ L & 100

3. 1000 5 μ L 95 μ L & 20 5 μ L

20 245 μ L & 50 1000

4. 100000 5 μ L 195 μ L & 40

5 μ L 40 245 μ L & 50 5 μ L 2000

245 μ L & 50 100000

3 μ L 100

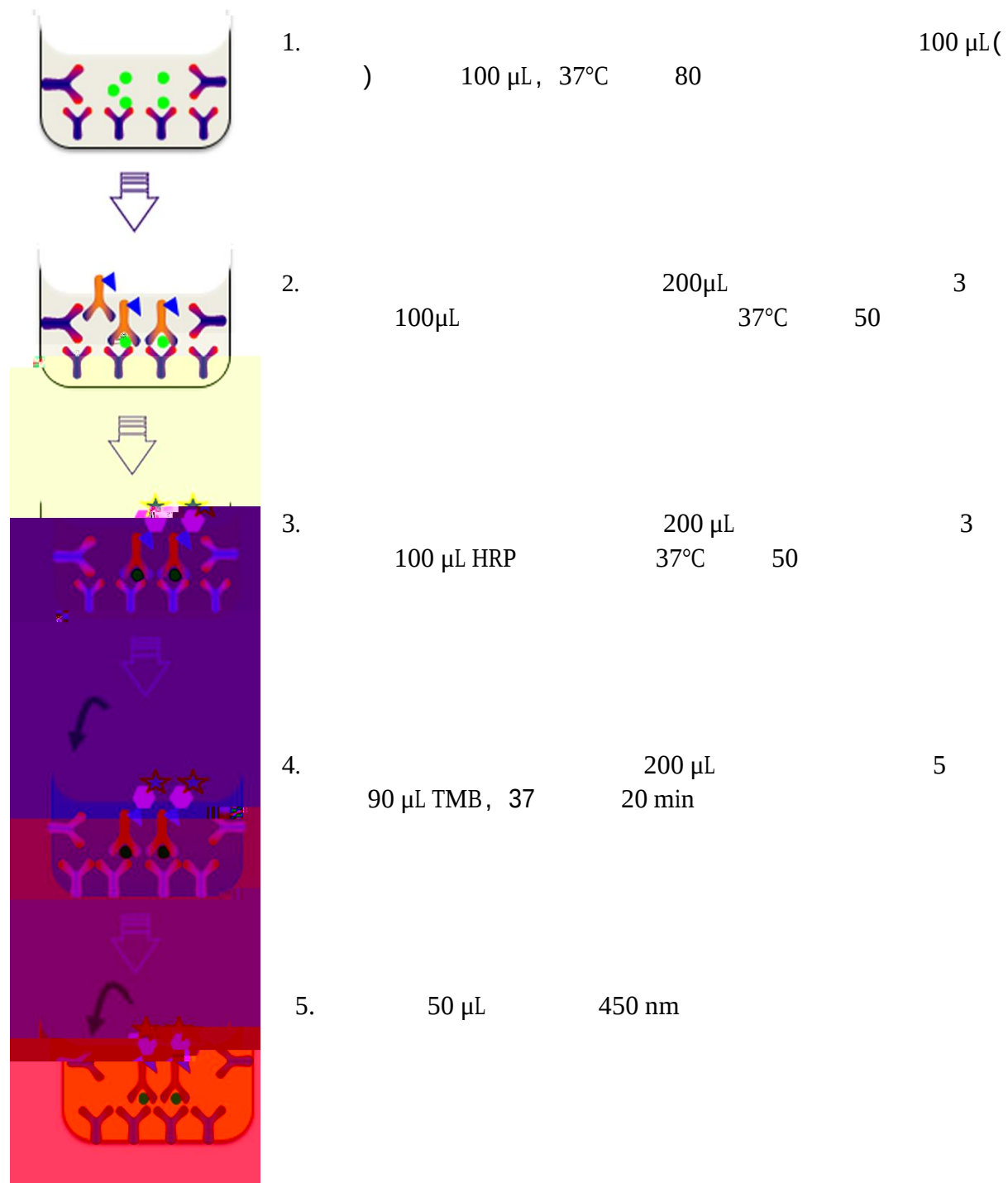
PBS

1. / (Original solution-1:5)

2.}}š

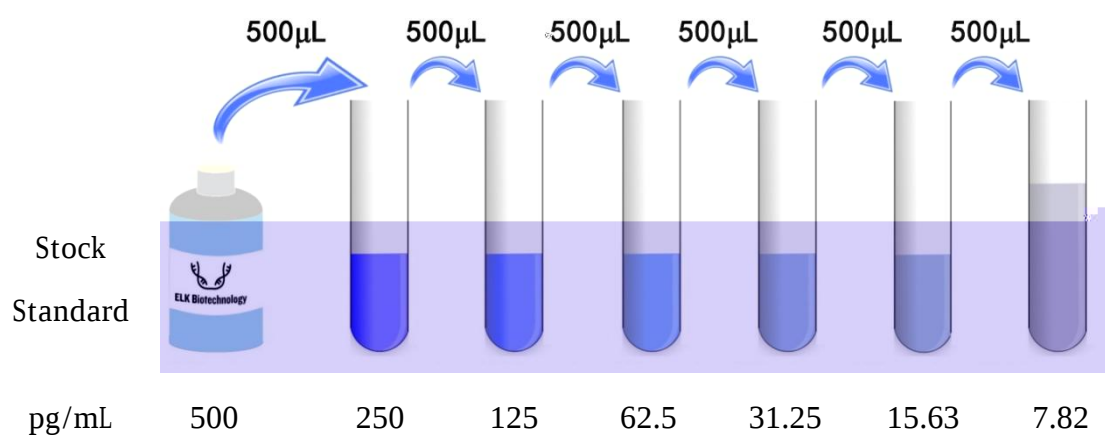
&

b





- 30
- 25× 1× 4°C
- & 1.0 mL 10
500 pg/mL 500 pg/mL 250 pg/mL
125 pg/mL 62.5 pg/mL 31.25 pg/mL 15.63 pg/mL 7.82 pg/mL 0 pg/mL
15



- 100-200 µL 15 100 µL/ 1:100
1 µL 99 µL
- 100 µL/ 100-200
µL 15 HRP 1:100
1 µL 99 µL
- TMB —



- 1.
2.

1000×g	1		4-5
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3.

	40℃
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4.

	10
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- 5.
6.

TMB		TMB
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- 7.
- 8.
- 9.
- 10.

- 1.
- 2.
- 3.



- 1.
2. 100 μ L
- 37 $^{\circ}$ C 80
3. 3 200 μ L 1-2
4. 100 μ L 15 37 $^{\circ}$ C 50
5. 3 200 μ L 1-2
6. 100 μ L 15 37 $^{\circ}$ C 50
7. 5 200 μ L 1-2
8. TMB 90 μ L 37 $^{\circ}$ C 20
- 30
9. 50 μ L
10. 450 nm OD



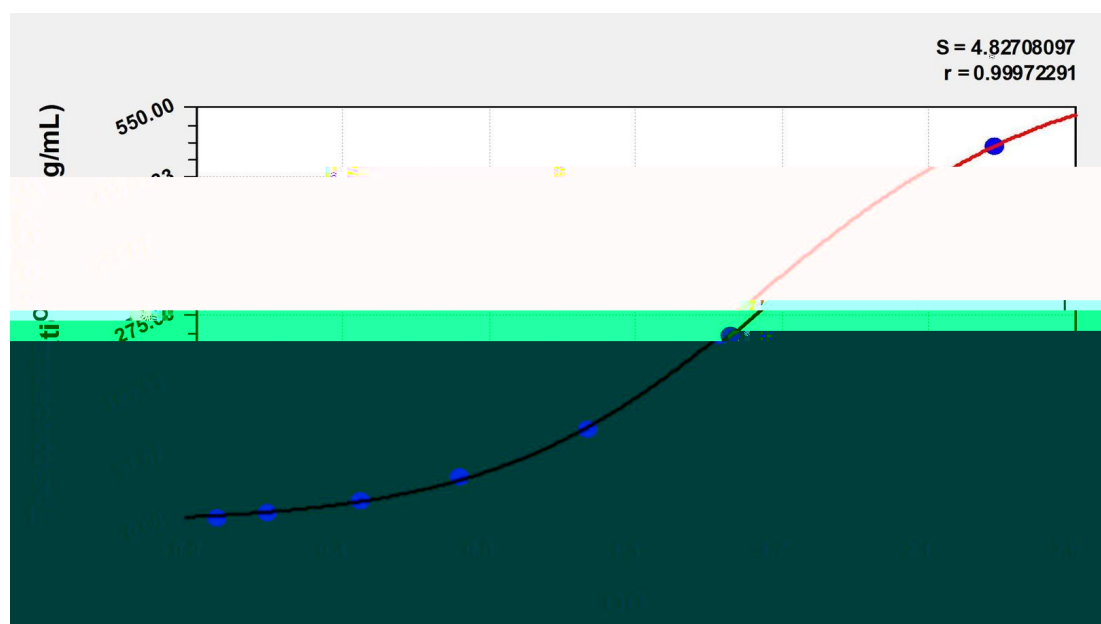
1. OD OD
 2. OD OD
- X Y

OD

OD

curve expert

Concentration (pg/mL)	OD	Corrected OD
500	2.379	2.292
250	1.621	1.534
125	1.24	1.153
62.5	0.872	0.785
31.25	0.589	0.502
15.63	0.325	0.238
7.82	0.179	0.092
0	0.087	0.000



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●

() : CV% < 8%
 1 20
 () : CV% < 10%
 3 40

●

CP

(n=5)	88-96%	92%
EDTA (n=5)	85-93%	89%
heparin (n=5)	78-87%	83%

●

CP 2 4 8 16

	1:2	1:4	1:8	1:16
(n=5)	88-98%	80-89%	77-91%	78-89%
EDTA (n=5)	83-94%	83-93%	90-97%	90-97%
heparin (n=5)	79-85%	81-91%	93-103%	89-96%



ELISA

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	Avidin-HRP	,
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		TMB 450nm , 650nm

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		PH
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	NaN ₃ ,	NaN ₃
	,	,
,		TMB 450nm , 650nm



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1. , ,
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