



10(GDF10)

serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids

0.1 ng/mL

0.16-10 ng/mL

GDF10

		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	



ELK Biotechnology



		GDF10	96	
GDF10		GDF10		GDF10
	GDF10		GDF10	
	HRP		TMB	TMB
				GDF10
	450 nm	(OD)		

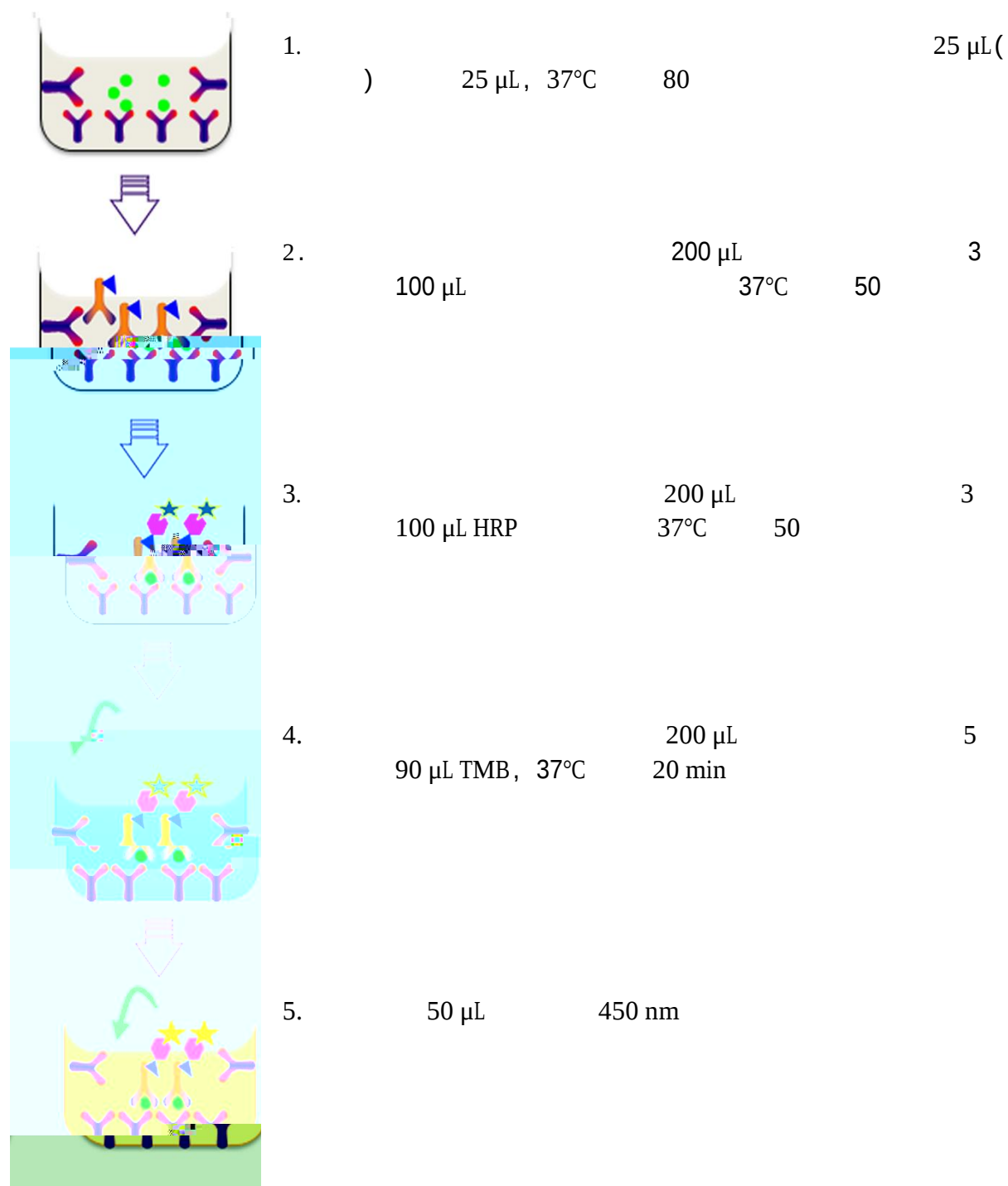


1. 2 4°C 1000×g 20
-20°C -80°C
2. 30 2-8°C 1000×g 15
EDTA-Na₂ -20°C -80°C
3. PBS 0.01M pH7.0-7.2
PBS 1:9
PBS 1%
2
5000×g 5-10
BC016 BCA
4. 1000×g 20
-20°C -80°C
5. 24 2000×g 15
-20°C
6. 2-8°C, 1000×g 15
-20°C
7. 1000×g 20
- 1.
2. 1 4°C
-20°C 1 -80°C 3-6



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
5. 3 μ L 100
6. PBS &

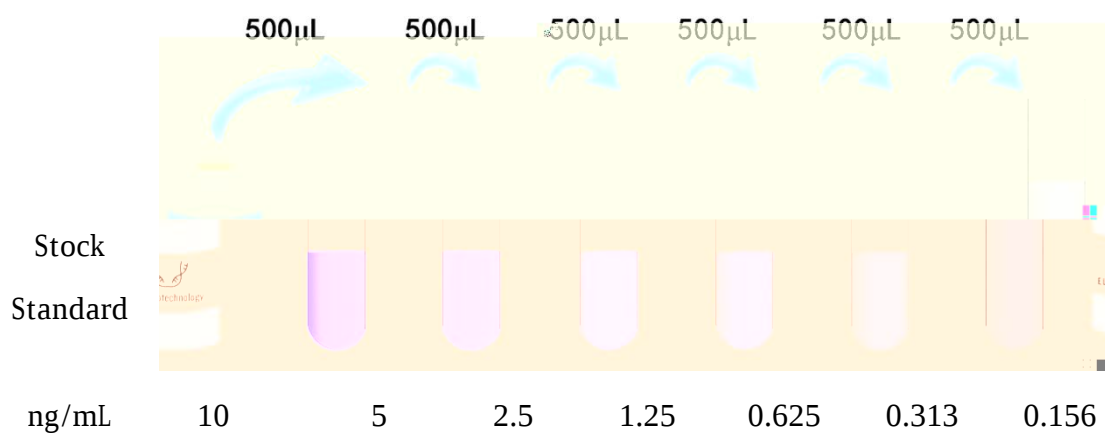
1. / (Original solution)
- 2.





1. 30
2. 25× 1× 4°C
3. & 1.0 mL 10
- 10 ng/mL 10 ng/mL 5 ng/mL 2.5
- ng/mL 1.25 ng/mL 0.625 ng/mL 0.313 ng/mL 0.156 ng/mL 0 ng/mL

15



4. 100-200 µL 15 100 µL/ 1:100
- 1 µL 99 µL

5. 100 µL/ 100-200
- µL 15 HRP 1:100
- 1 µL 99 µL

6. 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. 25 μ L
- 37°C 80
3. 3 200 μ L 1-2
4. 100 μ L 15 37°C 50
5. 3 200 μ L 1-2
6. 100 μ L 15 37°C 50
7. 5 200 μ L 1-2
8. TMB 90 μ L 37°C 20
- 30
9. 50 μ L
10. 450 nm OD



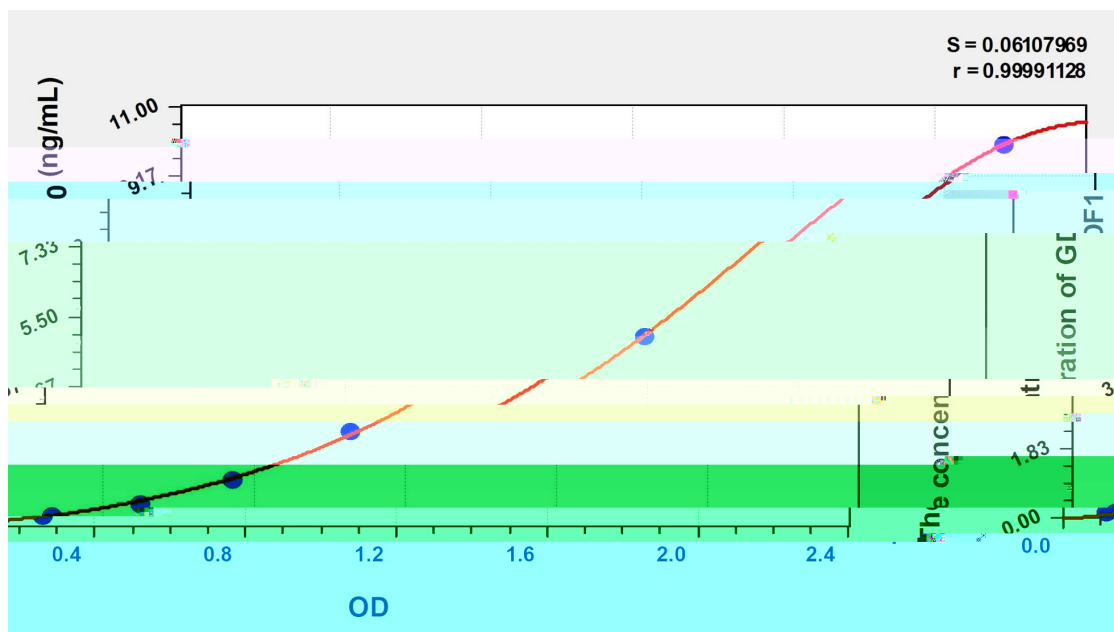
1. OD OD
 2. OD OD
- X Y

OD

OD

curve expert

ng/mL		
10	2.247	2.152
5	1.569	1.474
2.5	1.135	1.04
1.25	0.827	0.732
0.625	0.583	0.488
0.313	0.353	0.258
0.156	0.208	0.113
0	0.095	0.000





●

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

●

GDF10

(n=5)	94-106%	100%
EDTA (n=5)	81-94%	88%
heparin (n=5)	87-109%	98%

●

GDF10 2 4 8 16

	1:2	1:4	1:8	1:16
(n=5)	81-116%	85-94%	91-110%	93-107%
EDTA (n=5)	81-114%	89-116%	85-115%	86-102%
heparin (n=5)	87-112%	86-100%	81-106%	94-106%



/

	Avidin-HRP	
		TMB 450nm 650nm



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		30min
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		15-30min
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	,	(
	NaN ₃ ,	NaN ₃
	,	,
,		TMB 450nm , 650nm



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2. ,
- 3.
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5. ELK Biotechnology
6. 6

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