

**Total ERK 1/2 ASSAY LAYOUT SHEET**  
for use with Assay Designs' Catalog No. 900-152

• **TABLE FOR MAKING STANDARDS 1-8:**

Std.	Diluent Vol. ( $\mu\text{L}$ )	Standard Vol. Added ( $\mu\text{L}$ )	ERK 1/2 Conc. (pg/mL)
1	450	50, Stock	20,000
2	250	250, Std. 1	10,000
3	250	250, Std. 2	5,000
4	250	250, Std. 3	2,500
5	250	250, Std. 4	1,250
6	250	250, Std. 5	625
7	250	250, Std. 6	312
8	250	250, Std. 7	156

• **ASSAY PROTOCOL FLOW CHART: Vol. Added ( $\mu\text{L}$ )**

Well ID:	Blank A1, B1	S0 C1-D1	Standards E1-D3	Samples E3-H12
Standard Diluent	---	100 $\mu\text{L}$	---	---
Std. or Sample	---	---	100 $\mu\text{L}$	100 $\mu\text{L}$
Seal plate and tap gently to mix	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒
Incub. 1 hour @ RT, shaking & sealed	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒
Asp. & Wash 4 x 400 $\mu\text{L}$	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒
Antibody	---	100 $\mu\text{L}$	100 $\mu\text{L}$	100 $\mu\text{L}$
Incub. 1 hour @ RT, shaking & sealed	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒
Asp. & Wash 4 x 400 $\mu\text{L}$	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒
Conjugate	---	100 $\mu\text{L}$	100 $\mu\text{L}$	100 $\mu\text{L}$
Incub. 30 min. @ RT, shaking & sealed	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒
Asp. & Wash 4 x 400 $\mu\text{L}$	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒
TMB Substrate	100 $\mu\text{L}$	100 $\mu\text{L}$	100 $\mu\text{L}$	100 $\mu\text{L}$
Incub. 30 min. @ RT, shaking	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒
Stop Solution 2 (1N HCl)	100 $\mu\text{L}$	100 $\mu\text{L}$	100 $\mu\text{L}$	100 $\mu\text{L}$
Read OD at 450 nm	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒	⇒⇒⇒⇒

**Total ERK 1/2 PLATE LAYOUT:**

A1 Blank	A2 Std 3	A3 Std 7	A4	A5	A6	A7	A8	A9	A10	A11	A12
B1 Blank	B2 Std 3	B3 Std 7	B4	B5	B6	B7	B8	B9	B10	B11	B12
C1 S0	C2 Std 4	C3 Std 8	C4	C5	C6	C7	C8	C9	C10	C11	C12
D1 S0	D2 Std 4	D3 Std 8	D4	D5	D6	D7	D8	D9	D10	D11	D12
E1 Std 1	E2 Std 5	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
F1 Std 1	F2 Std 5	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
G1 Std 2	G2 Std 6	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
H1 Std 2	H2 Std 6	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12

Kit Lot No. \_\_\_\_\_ Exp. Date \_\_\_\_\_ Date \_\_\_\_\_ Tech. \_\_\_\_\_

1<sup>st</sup> Incub.: Start Time \_\_\_\_\_ Temp. \_\_\_\_\_

End Time \_\_\_\_\_ Temp. \_\_\_\_\_

2<sup>nd</sup> Incub.: Start Time \_\_\_\_\_ Temp. \_\_\_\_\_

End Time \_\_\_\_\_ Temp. \_\_\_\_\_

3<sup>rd</sup> Incub.: Start Time \_\_\_\_\_ Temp. \_\_\_\_\_

End Time \_\_\_\_\_ Temp. \_\_\_\_\_

4<sup>th</sup> Incub.: Start Time \_\_\_\_\_ Temp. \_\_\_\_\_

End Time \_\_\_\_\_ Temp. \_\_\_\_\_