

My Special Dilution Sheet

13 November, 2019

User Inputs

Version: v3

Food: Lysate

Dose response: TRUE

Minimum amount to pipette: 0.5

Number of drugs: 2

	Drug	Stock Conc. (mM)	Diluent	Drug Dose (uM)	Drug Plates	Wells
2	FLX	179	DMSO	0, 7.8, 15.6, 31.25, 62.5	3	15
3	MIAN	100	DMSO	0, 25, 50, 100, 200	12	15

Food Setup

[1] “Total lysate mix needed: 30.63 mL (15 mg/mL), actually make: 33.33 mL”

[1] “Number of lysate tubes needed: 5”

[1] “Add 28.33 mL of K medium to lysate.”

[1] “Add 62.49 uL of Kanamycin to lysate mix.”

Drug Dilutions

Drug	Diluent	Stock Conc. (mM)	Working Conc. (mM)	Dilution	Total Drug (uL)
FLX	DMSO	179	17.9	1:10	2.429717
MIAN	DMSO	100	100.0	Do not dilute.	55.687500

Plate Dilutions

[1] “Add 25 uL food + drug to wells with 50 uL worms.”

Condition	Diluent	Dilution Factor	Concentration (uM)	Plates	Food (uL)	Diluent (uL)	Drug (uL)
FLX	DMSO	1:10	0	3	1225.12	12.38	0.00
FLX	DMSO	1:10	7.8	3	1225.12	10.76	1.62
FLX	DMSO	1:10	15.6	3	1225.12	9.14	3.24
FLX	DMSO	1:10	31.25	3	1225.12	5.89	6.48
FLX	DMSO	Stock Concentration	62.5	3	1225.12	11.08	1.30

Condition	Diluent	Dilution Factor	Concentration (uM)	Plates	Food (uL)	Diluent (uL)	Drug (uL)
MIAN	DMSO	Stock Concentration	0	12	4900.5	49.50	0.00
MIAN	DMSO	Stock Concentration	25	12	4900.5	45.79	3.71
MIAN	DMSO	Stock Concentration	50	12	4900.5	42.08	7.42
MIAN	DMSO	Stock Concentration	100	12	4900.5	34.65	14.85
MIAN	DMSO	Stock Concentration	200	12	4900.5	19.80	29.70