2023-05-22 N2-Barcode Drug Pressure

Drug Diltutions

Make 1μM working stock of each drug
* Doxorubicin: 1μL 10mM stock in 10mL media
* Methotrexate: 1μL 10mM stock in 10mL media
* Vincristine: 333.33μL 30mM stock in 10mL media

Doxorubicin

Drug	Drug ID	Dilution volume	Media Volume	[Final Drug]
Doxorubicin	Dox 1	3600 μL (from WS)	8400 μL	300nm
Doxorubicin	Dox 2	6000 μL (from Dox 1)	6000 μL	150nm
Doxorubicin	Dox 3	6000 μL (from Dox 2)	6000 μL	75nm
Doxorubicin	Dox 4	6000 μL (from Dox 3)	6000 μL	37.5nm
Doxorubicin	Dox 5	6000 μL (from Dox 4)	6000 μL	18.75nm

Methotrexate

Drug	Drug ID	Dilution volume	Media Volume	[Final Drug]
Methotrexate	Meth 1	1200 μL (from WS)	10800 μL	100nm
Methotrexate	Meth 2	6000 μL (from Meth 1)	6000 μL	50nm
Methotrexate	Meth 3	6000 μL (from Meth 2)	6000 μL	20nm
Methotrexate	Meth 4	6000 μL (from Meth 3)	6000 μL	10nm
Methotrexate	Meth 5	6000 μL (from Meth 4)	6000 μL	5nm

Vincristine

Drug	Drug ID	Dilution Volume	Media Volume	[Final Drug]
Vincristine	Vin 1	48 μL (from WS)	11952 μL	4nm
Vincristine	Vin 2	6000 μL (from Vin 1)	6000 μL	2nm
Vincristine	Vin 3	6000 μL (from Vin 2)	6000 μL	1nm
Vincristine	Vin 4	6000 μL (from Vin 3)	6000 μL	0.5nm
Vincristine	Vin 5	6000 μL (from Vin 4)	6000 μL	0.25nm

Instructions

1. Make drug dilutions and DMSO tubes (3μL DMSO in 30mL)
2. Collect wells into labeled 15mL tubes
3. Count cells
4. Spin down volume of CS which $\leq$ 1.0x10^6
5. Resuspend in associated drug mix and add back to well