

CompuSyn Report

Experiment Name: S. triloba-PTX combo
Date: 17-Aug-2022
File Name: E:\AUC-BIOT\Miscellaneous\Naela Saleh\Naela- Sage Progect\Files from Naela\Combination troubleshoot_Eric-F.cse

Description

Drug: Salvia triloba (ST) [$\mu\text{g/ml}$]
Drug: Paclitaxel (PTX) [$\mu\text{g/ml}$]
Drug Combo: S.triloba-Paclitaxel (ST-PTX) (ST+PTX [1:0.04142])

Data for Drug: ST [$\mu\text{g/ml}$]

Dose	Effect
------	--------

0.25	0.01
------	------

19.0	0.41077
------	---------

38.0	0.51115
------	---------

76.0	0.3187
------	--------

152.0	0.65196
-------	---------

304.0	0.9
-------	-----

6 data points entered.

X-int: 1.70696

Y-int: -1.4655 +/- 0.22637

m: 0.85854 +/- 0.12736

Dm: 50.9282

r: 0.95870

Data for Drug: PTX [$\mu\text{g/ml}$]

Dose	Effect
------	--------

0.01	0.01
------	------

0.787	0.97536
-------	---------

1.574	0.97752
-------	---------

3.148	0.9
-------	-----

6.296	0.95046
-------	---------

12.592	0.97428
--------	---------

6 data points entered.

X-int: -0.6564

Y-int: 0.74937 +/- 0.29300

m: 1.14170 +/- 0.28949

Dm: 0.22062

r: 0.89187

Data for Drug Combo: ST-PTX (ST+PTX [1:0.04142])

Dose A	Effect
--------	--------

Dose A	Effect
0.24360+	0.01
19.0000+	0.88325
38.0000+	0.85706
76.0001+	0.83451
152.000+	0.81048
304.000+	0.9

6 data points entered.

X-int: 1.14100

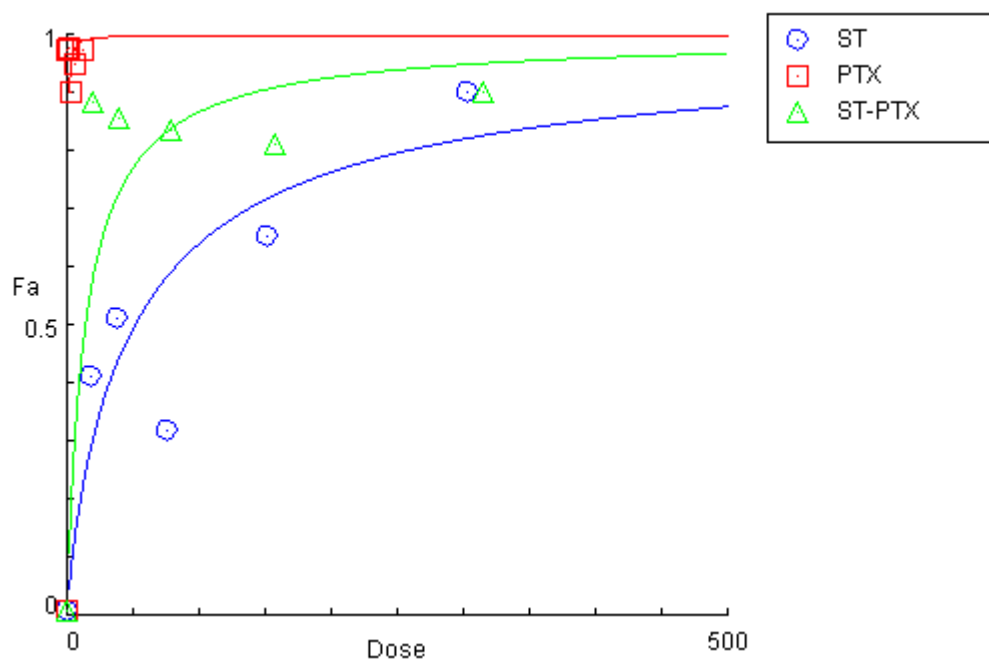
Y-int: -1.0845 +/- 0.36808

m: 0.95052 +/- 0.20533

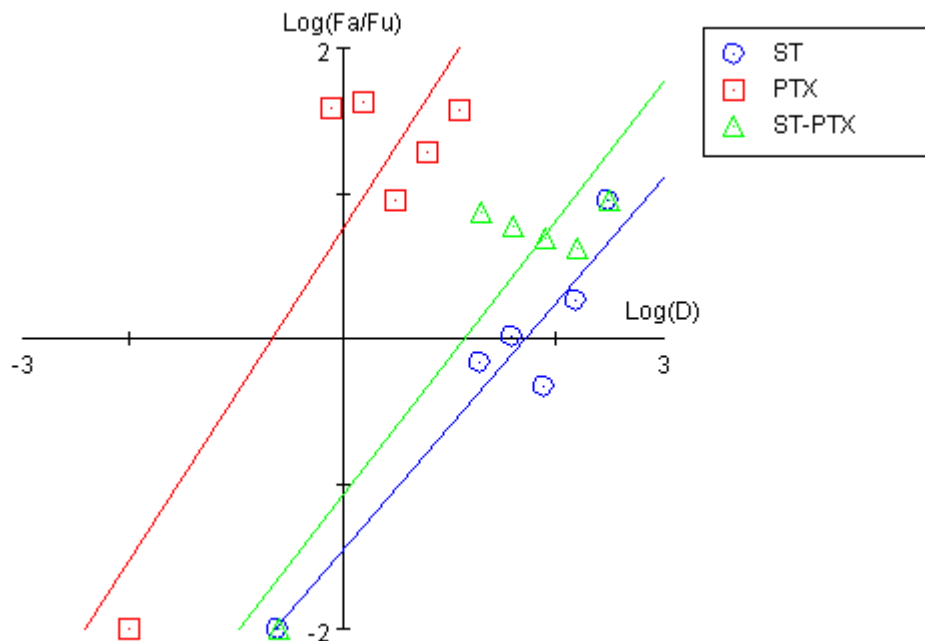
Dm: 13.8357

r: 0.91799

Dose-Effect Curve



Median-Effect Plot



CI Data for Drug Combo: ST-PTX (ST+PTX [1:0.04142])

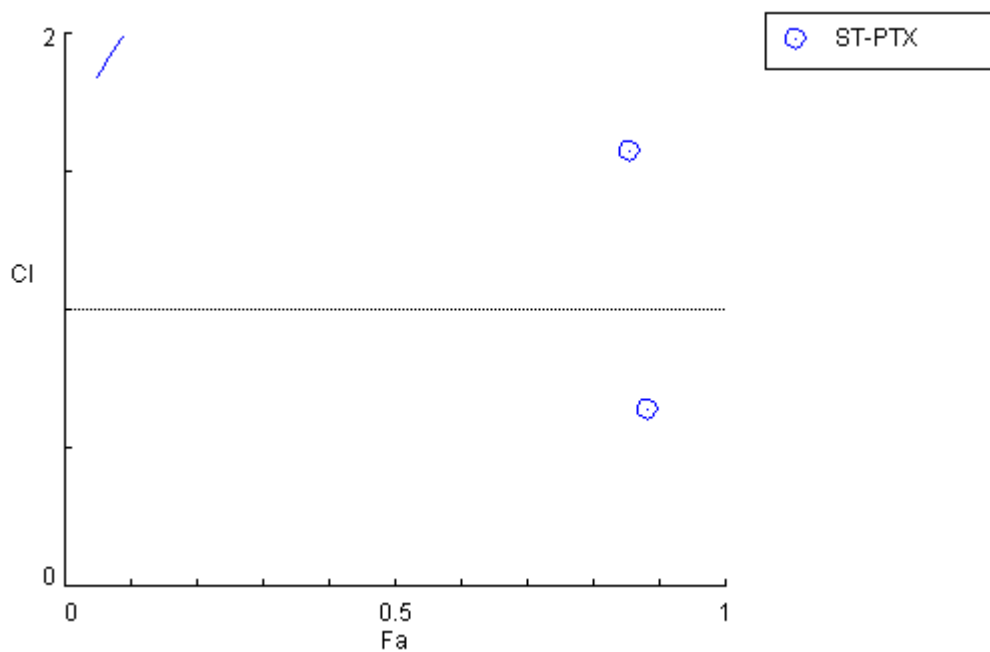
Fa	CI Value	Total Dose
0.05	1.84836	0.62472
0.1	2.02789	1.37116
0.15	2.15473	2.23081
0.2	2.25880	3.21813
0.25	2.35064	4.35558
0.3	2.43544	5.67377
0.35	2.51630	7.21378
0.4	2.59540	9.03119
0.45	2.67448	11.2025
0.5	2.75515	13.8357
0.55	2.83907	17.0879
0.6	2.92818	21.1963
0.65	3.02497	26.5364
0.7	3.13293	33.7391
0.75	3.25740	43.9500
0.8	3.40740	59.4841
0.85	3.60032	85.8108
0.9	3.87692	139.609
0.95	4.37727	306.420
0.97	4.77780	536.084

CI values for actual experimental points:

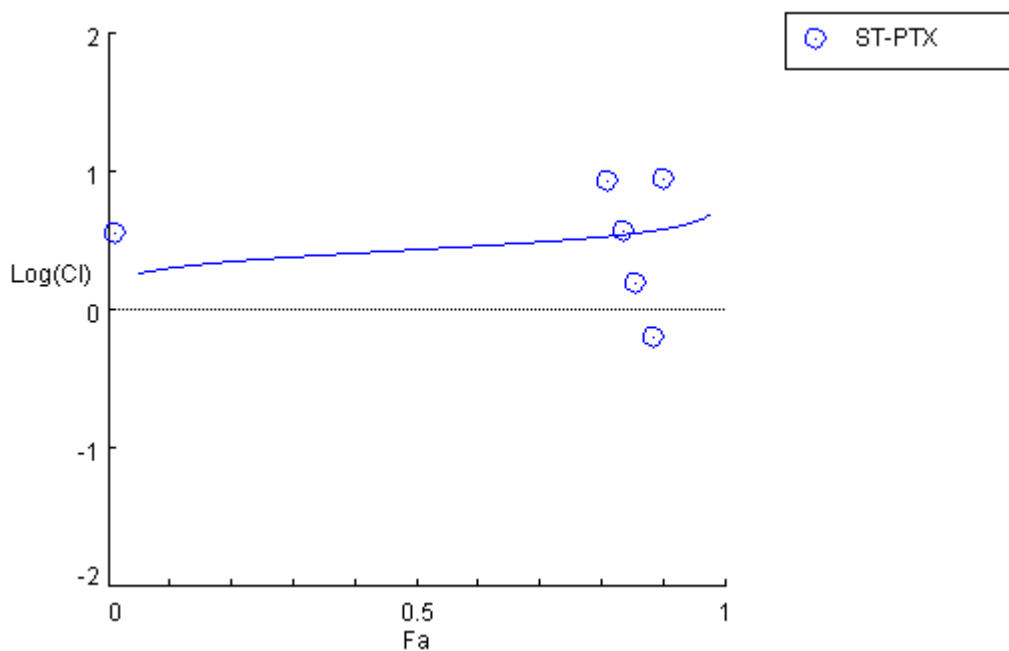
Total Dose	Fa	CI Value
0.25369	0.01	3.56939
19.787	0.88325	0.64147

Total Dose	Fa	CI Value
39.574	0.85706	1.57872
79.148	0.83451	3.68557
158.296	0.81048	8.54131
316.592	0.9	8.79168

Combination Index Plot



Logarithmic Combination Index Plot



DRI Data for Drug Combo: ST-PTX (ST+PTX [1:0.04142])

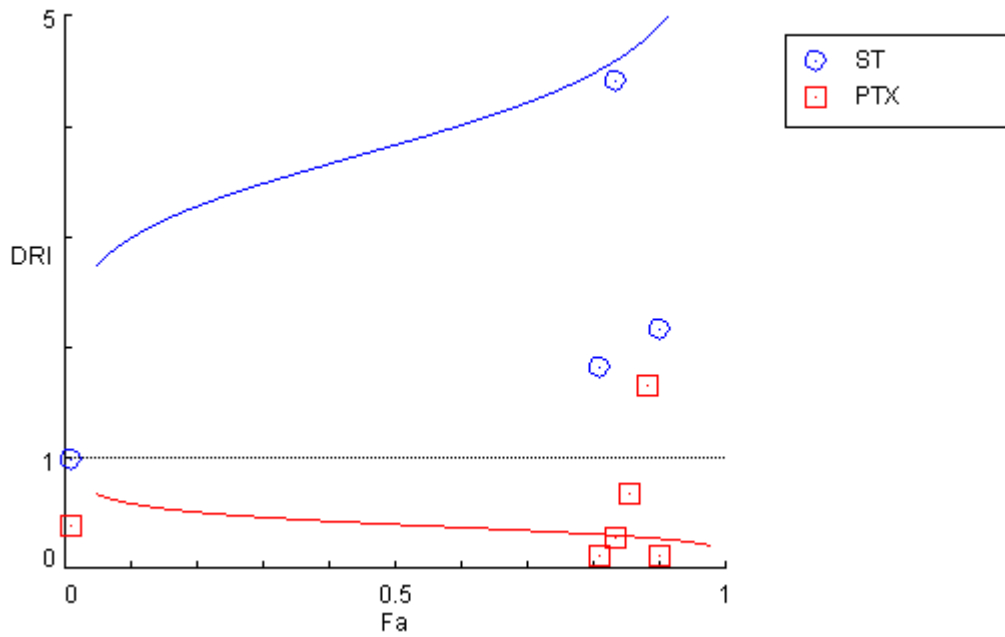
Fa	Dose ST	Dose PTX	DRI ST	DRI PTX
----	---------	----------	--------	---------

Fa	Dose ST	Dose PTX	DRI ST	DRI PTX
0.05	1.65006	0.01673	2.75067	0.67349
0.1	3.93987	0.03220	2.99239	0.59042
0.15	6.75308	0.04829	3.15257	0.54421
0.2	10.1320	0.06551	3.27881	0.51182
0.25	14.1651	0.08428	3.38688	0.48653
0.3	18.9823	0.10504	3.48420	0.46546
0.35	24.7636	0.12828	3.57501	0.44711
0.4	31.7579	0.15467	3.66212	0.43060
0.45	40.3133	0.18506	3.74764	0.41534
0.5	50.9282	0.22062	3.83338	0.40092
0.55	64.3382	0.26301	3.92108	0.38699
0.6	81.6705	0.31468	4.01265	0.37328
0.65	104.738	0.37942	4.11043	0.35949
0.7	136.637	0.46339	4.21756	0.34532
0.75	183.104	0.57749	4.33875	0.33037
0.8	255.990	0.74297	4.48175	0.31404
0.85	384.074	1.00801	4.66121	0.29535
0.9	658.318	1.51163	4.91074	0.27224
0.95	1571.87	2.90856	5.34227	0.23866
0.97	2919.85	4.63358	5.67223	0.21732

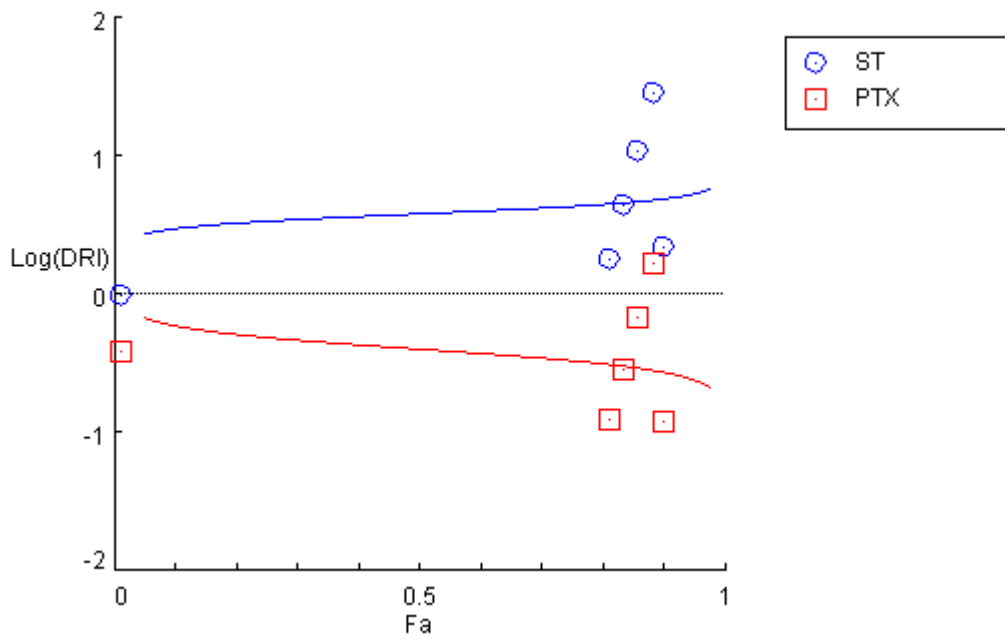
DRI values calculated at experimental points

Fa	Dose ST	Dose PTX	DRI ST	DRI PTX
0.01	0.24126	0.00394	0.99041	0.39067
0.88325	537.766	1.29834	28.3034	1.64978
0.85706	410.192	1.05914	10.7945	0.67291
0.83451	335.273	0.91010	4.41148	0.28911
0.81048	276.715	0.78777	1.82049	0.12513
0.9	658.318	1.51163	2.16552	0.12005

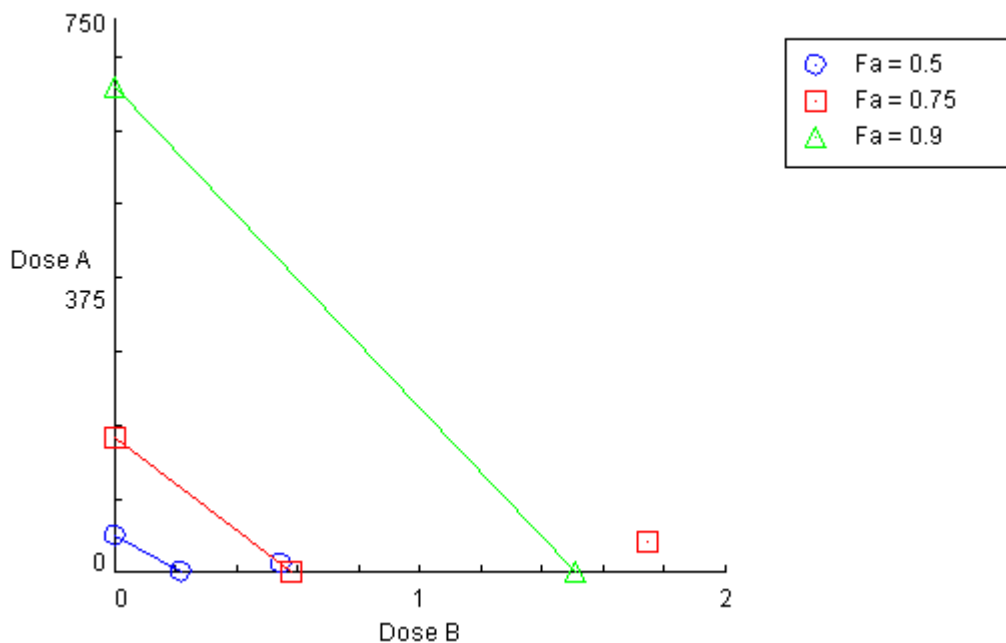
DRI Plot for Combo: ST-PTX (ST+PTX [1:0.04142])



Log(DRI) Plot for Combo: ST-PTX (ST+PTX [1:0.04142])



Isobologram for Combo: ST-PTX (ST+PTX [1:0.04142])



Summary Table

Experiment Name:	S. triloba-PTX combo
Date:	17-Aug-2022
File Name:	E:\AUC-BIOT\Miscellaneous\Naela Saleh\Naela- Sage Project\Files from Naela\Combination troubleshoot_Eric-F.cse
Description	
Drug:	Salvia triloba (ST) [µg/ml]
Drug:	Paclitaxel (PTX) [µg/ml]
Drug Combo:	S.triloba-Paclitaxel (ST-PTX) (ST+PTX [1:0.04142])

Drug/Combo	Dm	m	r
ST	50.9282	0.85854	0.95870
PTX	0.22062	1.14170	0.89187
ST-PTX	13.8357	0.95052	0.91799

CI values at:

Combo	ED50	ED75	ED90	ED95
ST-PTX	2.75515	3.25740	3.87692	4.37727

Data for Fa = 0.5

Drug/Combo	CI value	Dose ST	Dose PTX
ST		50.9282	
PTX			0.22062
ST-PTX	2.75515	13.2855	0.55028

Data for Fa = 0.75

Drug/Combo	CI value	Dose ST	Dose PTX
ST		183.104	
PTX			0.57749
ST-PTX	3.25740	42.2020	1.74801

Data for Fa = 0.9

Drug/Combo	CI value	Dose ST	Dose PTX
ST		658.318	
PTX			1.51163
ST-PTX	3.87692	134.057	5.55263

Data for Fa = 0.95

Drug/Combo	CI value	Dose ST	Dose PTX
ST		1571.87	
PTX			2.90856
ST-PTX	4.37727	294.233	12.1871

Data for Fa = 0.97

Drug/Combo	CI value	Dose ST	Dose PTX
ST		2919.85	
PTX			4.63358
ST-PTX	4.77780	514.762	21.3215