




























1	Group	Init
2	Command	"O2SS05,0" wait
3	Set Variable	SealNumber "By how many seal layers should the plates be closed? (0 to 2)" "By how many seal layers should the plates be closed? (0 to 2)", 0 - 2
4	Set Variable	SamplingTime "How frequent should be sampled (Every 15 to 240 min)?" "How frequent should be sampled (Every 15 to 240 min)?", 15 - 240
5	Set Variable	SamplingRepetitions = 4
6	Set Variable	SamplingEvents = 96/SamplingRepetitions
7	User Prompt	"Turn on the heater of the shaking incubator and set the desired incubation temperature manually! Sampling in four repetitions; 300 rpm for shaking" sound : no
8	Set Variable	PauseNachSchütteln = 10
9	Set Variable	CurrentPlatePos = 4
10	Set Variable	InactivationTime = 5
11	Set Variable	InactivationVolume = 1200
12	Set Variable	MixingTime = 15
13	Set Variable	CurrentSampleNumber = 0
14	Group End	Init
15	Group	Init Pipetting
16	Wash Tips	 20 + 15 ml
17	Wash Tips	 15 + 10 ml
18	Group End	Init Pipetting
19	Group	Inactivation
20	Wash Tips	 6 + 8 ml

21	Aspirate		InactivationVolume µl >> DM_Water free dispense << "Inactivation" (Col. 1, Rows 1-8)
22	Start Timer	2	
23	Wait for Timer	Timer 2 : InactivationTime sec	
24	Dispense		InactivationVolume µl >> DM_Water free dispense << "Inactivation" (Col. 1, Rows 1-8)
25	Wash Tips		6 + 8 ml
26	Group End	Inactivation	
27	Comment	Liquid-Liquid inoculation	
28	Comment	Sealing	
29	Begin Loop	SamplingRepetitions times "DilutionPlate"	
30	Begin Loop	2 times "SwitchingHalfs"	
31	Begin Loop	3 times "Sampling"	
32	Group	Cultivation and Sampling	
33	COVER	Open()	
34	KUEHNER	stop()	
35	Start Timer	1	
36	Wait for Timer	Timer 1 : PauseNachSchütteln sec	
37	Transfer Labware	Source: Grid '50,' Site 'CurrentPlatePos'; Destination: Grid '29', Site '1'; Narrow (ROMA 2)	
38	KUEHNER	start(300)	
39	COVER	Close()	
40	Transfer Labware	Source: Grid '29,' Site '1'; Destination: Grid '12', Site '1'; Narrow (ROMA 1)	
41	Set Variable	SampleOffset = 4*(LOOP_Sampling-1)+12*(LOOP_SwitchingHalfs-1)	
42	Comment	TO DO: Enable random selection	

43	Set Variable	WELL_OFFSET = SampleOffset	
44	Aspirate		250 µl >> DM_Water free dispense << "CulturePlate" (Col. 1, Row 1)
45	Aspirate		250 µl >> DM_Water free dispense << "CulturePlate" (Col. 1, Row 2)
46	Aspirate		250 µl >> DM_Water free dispense << "CulturePlate" (Col. 1, Row 3)
47	Aspirate		250 µl >> DM_Water free dispense << "CulturePlate" (Col. 1, Row 4)
48	Set Variable	WELL_OFFSET = 0	
49	Dispense		250 µl >> DM_Water free dispense << "DilutionPlate" (Col. 1, Rows 1-4) , 2 options
50	Wash Tips		1 + 2 ml
51	Transfer Labware	Source: Grid '12,' Site '1'; Destination: Grid '29', Site '1'; Narrow (ROMA 1)	
52	COVER	Open()	
53	KUEHNER	stop()	
54	Start Timer	1	
55	Wait for Timer	Timer 1 : PauseNachSchütteln sec	
56	Transfer Labware	Source: Grid '29,' Site '1'; Destination: Grid '50', Site '4'; Narrow (ROMA 2)	
57	KUEHNER	start(300)	
58	COVER	Close()	
59	Group	Inactivation	
60	Wash Tips		6 + 8 ml
61	Aspirate		InactivationVolume µl >> DM_Water free dispense << "Inactivation" (Col. 1, Rows 1-8)
62	Start Timer	2	
63	Wait for Timer	Timer 2 : InactivationTime sec	
64	Dispense		InactivationVolume µl >> DM_Water free dispense << "Inactivation" (Col. 1, Rows 1-8)

65	Wash Tips		6 + 8 ml
66	Group End	Inactivation	
67	Group End	Cultivation and Sampling	
68	Group	Dilution	
69	Aspirate		600 µl >> DM_Water free dispense << "Medium" (Col. 1, Rows 1-4)
70	Begin Loop	3 times "MediumFill"	
71	Dispense		200 µl >> DM_Water free dispense << "DilutionPlate" (Col. 2, Rows 1-4) , 3 options
72	End Loop	"MediumFill"	
73	Begin Loop	3 times "Serial Dilution"	
74	Aspirate		50 µl >> DM_Water free dispense << "DilutionPlate" (Col. 1, Rows 1-4) , 3 options
75	Dispense		50 µl >> DM_Water free dispense << "DilutionPlate" (Col. 2, Rows 1-4) , 3 options
76	Wash Tips		6 + 8 ml
77	Te-Shake Shaker	SetFrequency(1200)	
78	Te-Shake Shaker	Start(1)	
79	Start Timer	3	
80	Wait for Timer	Timer 3 : MixingTime sec	
81	Te-Shake Shaker	Stop()	
82	End Loop	"Serial Dilution"	
83	Aspirate		50 µl >> DM_Water free dispense << "DilutionPlate" (Col. 4, Rows 1-4) , 2 options
84	Group	Inactivation	
85	Wash Tips		6 + 8 ml
86	Aspirate		InactivationVolume µl >> DM_Water free dispense << "Inactivation" (Col. 1, Rows 1-8)

87	Start Timer	2
88	Wait for Timer	Timer 2 : InactivationTime sec
89	Dispense	 InactivationVolume µl >> DM_Water free dispense << "Inactivation" (Col. 1, Rows 1-8)
90	Wash Tips	 6 + 8 ml
91	Group End	Inactivation
92	Group End	Dilution
93	 Group	OD600nm determination
94	Transfer Labware	Source: Grid '44,' Site '1'; Destination: Grid '19', Site '1'; Narrow (ROMA 2)
95	Transfer Labware	Source: Grid '19,' Site '1'; Destination: Grid '8', Site '1'; Narrow (ROMA 1)
96	Infinite Reader	Open()
97	Transfer Labware	Source: Grid '9,' Site '1'; Destination: Grid '6', Site '1'; Wide (ROMA 1)
98	Infinite Reader	Close()
99	Set Variable	CurrentSampleNumber = CurrentSampleNumber+1
100	Set Variable	LAST_BARCODE = CurrentSampleNumber

101	Infinite Reader	Measure(C:\ProgramData\Tecan\EVOware\OutputFiles_Reader\Growthcurve_<YYYY-MM-DD HH-mm-ss>.xls < TecanFile xmlns:xsi equal; quote; http://www.w3.org/2001/XMLSchema-instance quote; xsi:schemaLocation equal; quote; tecan.at.schema.documents Main.xsd quote; fileformat equal; quote; Tecan.At.Measurement quote; fileversion equal; quote; 2.0 quote; xmlns equal; quote; tecan.at.schema.documents quote; ><FileInfo type equal; quote; quote; instrument equal; quote; infinite 200Pro quote; version equal; quote; createdFrom equal; quote; localadmin quote; createdAt equal; quote; 2015-07-22 T15:04:02.4813319Z quote; createdWith equal; quote; Tecan.At.XFluor.Reader Editor.XFluorReader Editor quote; description equal; quote; /><TecanMeasurement id equal; quote; 1 quote; classequal; quote; Measurement quote; ><Measurement ManualCycle id equal; quote; 2 quote; numberequal; quote; 1 quote; type equal; quote; Standard quote; ><CyclePlate id equal; quote; 3 quote; file equal; quote; CO R96fc UV transparent quote; plateWithCover equal; quote; False quote; ><PlateRange id equal; quote; 4 quote; range equal; quote; A1:H12 quote; auto equal; quote; false quote; ><MeasurementAbsorbance id equal; quote; 5 quote; mode equal; quote; Normal quote; type equal; quote; name equal; quote; ABS quote; longname equal; quote; description equal; quote; quote; ><Well id equal; quote; 6 quote; auto equal; quote; true quote; ><MeasurementReading id equal; quote; 7 quote; name equal; quote; quote; beamDiameter equal; quote; 500 quote; beamGrid id type equal; quote; Single quote; beamGridSize equal; quote; 1 quote; beamEdgeDistance equal; quote; auto quote; ><ReadingLabel id equal; quote; 8 quote; name equal; quote; Label1 quote; scanType equal; quote; ScanFixed quote; refID equal; quote; 0 quote; ><ReadingSetting s numberequal; quote; 25 quote; rate equal; quote; 25000 quote; /><ReadingTime integration Time equal; quote; 0 quote; lagTime equal; quote; 0 quote; readDelay equal; quote; 0 quote; flashequal; quote; 0 quote; dark equal; quote; 0 quote; excitationTime equal; quote; 0 quote; /><ReadingFilter id equal; quote; 0 quote; type equal; quote; Ex quote; wavelength equal; quote; 600 0 quote; bandwidth equal; quote; 90 quote; attenuation equal; quote; 0 quote; usag equal; quote; ABS quote; /></ReadingLabel></MeasurementReading g></Well><CustomData id equal; quote; 9 quote; /></MeasurementAbsorbance></PlateRange></CyclePlate></Measurement ManualCycle><MeasurementInfo id equal; quote; 0 quote; description equal; quote; quote; ><ScriptTemplateSettings id equal; quote; 0 quote; ><ScriptTemplateGeneralSettings id equal; quote; 0 quote; Title equal; quote; quote; Group equal; quote; quote; In foequal; quote; quote; Image equal; quote; quote; /><ScriptTemplateDescriptionSettings id equal; quote; 0 quote; Internalequal; quote; quote; Externalequal; quote; quote; Is Externalequal; quote; False quote; /></ScriptTemplateSettings></MeasurementInfo></TecanMeasurement></TecanFile>)
102	Infinite Reader	Open()
103	Transfer Labware	Source: Grid '6,' Site '1'; Destination: Grid '9', Site '1'; Wide (ROMA 1)
104	Infinite Reader	Close()
105	Transfer Labware	Source: Grid '8,' Site '1'; Destination: Grid '19', Site '1'; Narrow (ROMA 1)
106	Transfer Labware	Source: Grid '19,' Site '1'; Destination: Grid '44', Site '1'; Narrow (ROMA 2)
107	Group End	OD600nm determination
108	End Loop	"Sampling"
109	End Loop	"SwitchingHalves"
110	End Loop	"DilutionPlate"

