Folate Microbiologic Assay Training Poster

Part 3: Prepare 96-Well Plates and Add Samples

6



Label each plate on the front with the date and analyst initial. Write the plate number on the upper left corner and on the front.



Plate #1 is used for the calibrator with 8 replicates/concentration. Write the volumes of sodium ascorbate (SA) at the top of each column and the volumes of calibrator (CAL) at the bottom of each column.

3	1	Eacl	n sa	mpl	e pl	ate	con	tain	s th	e fo	llow	ing	
		1	2	3	4	5	6	7	8	9	10	11	12
	Α	_	c	#4		#8		#12		#16		#3	
	В	9	Ľ	*	4	"	•	#.	.2	#.	10	#4	20
	с	#	1	#5		#9		#13		#17		#21	
	D	*	1	*	2	"	,	#.	15	#.	· /		.1
	E		2		6	#1		#1		#:		#3	
	F	#	2	*	0	#.	10	#.	.4	#.	18	#4	~
	G	#		#	_	#1	1	#1			19	DI	nk
	н	#	2	- A	'	#.		#.	.5	#.	.9	BIS	пк

Plates #2-4 are sample plates. Each sample is analyzed using 4 replicates (2 dilutions and 2 replicates per dilution). A total of 24 samples can be analyzed per sample plate including 1 QC sample and 1 blank.



To help with the correct transfer of diluted samples into the plate, divide the plate into columns and rows. Each sample will occupy four wells. Label the sample # on the plate.



Add 200 μ L growth medium to all plates using a 12-channel electronic pipette (50–1,250 μ L) with the repetitive pipetting function and volume set to 200 μ L.

Add sodium ascorbate												
	1	2	3	4	5	6	7	8	9	10	11	12
А	100	100	75	50	25	0	70	60	50	40	20	0
в	100	100	75	50	25	0	70	60	50	40	20	0
с	100	100	75	50	25	0	70	60	50	40	20	0
D	100	100	75	50	25	0	70	60	50	40	20	0
E	100	100	75	50	25	0	70	60	50	40	20	0
F	100	100	75	50	25	0	70	60	50	40	20	0
G	100	100	75	50	25	0	70	60	50	40	20	0
н	100	100	75	50	25	0	70	60	50	40	20	0

Add 0.5% sodium ascorbate to the calibrator plate (#1) using a smaller 12-channel electronic pipette (20-300 μ L) with the single pipetting function and 8 tips. Transfer appropriate volumes as shown above.

	Sample plate Add sodium ascorbate											
	1	2	3	4	5	6	7	8	9	10	11	12
Α	50	0	50	0	50	0	50	0	50	0	50	0
В	50	0	50	0	50	0	50	0	50	0	50	0
с	50	0	50	0	50	0	50	0	50	0	50	0
D	50	0	50	0	50	0	50	0	50	0	50	0
E	50	0	50	0	50	0	50	0	50	0	50	0
F	50	0	50	0	50	0	50	0	50	0	50	0
G	50	0	50	0	50	0	50	0	50	0	50	0
н	50	0	50	0	50	0	50	0	50	0	50	0
	-	v	olum	e of 0	5% 50	dium	2500	rhate	soluti	on (u		_

Add 50 μ L of 0.5% sodium ascorbate into sample plates using the same 12-channel electronic pipette with the repetitive pipetting function and 8 tips. Only add solution to odd-number columns.



Cover all plates with foil to protect them from dust and light.



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