

Antibiotic treatment to *Drosophila* cultures (Jeff Hall's lab)

Generation	drug	final concentration	stock solution	notes
F0	ampicillin +	50 $\mu\text{g/ml}$	5 mg/ml in DW	Best to make separate stock solutions and mix as needed lest CAM precipitates
	chloramphenicol	50 $\mu\text{g/ml}$	5 mg/ml in EtOH	
F1	gentamycin +	50 $\mu\text{g/ml}$	5 mg/ml in DW	Can be made as combined stock solution
	doxycycline	50 $\mu\text{g/ml}$	5 mg/ml in DW	
F2	amoxicillin +	100 $\mu\text{g/ml}$	10 mg/ml in DW	Can be made as combined stock solution. pH must be raised slightly for complete suspension
	cefamandole	150 $\mu\text{g/ml}$	15 mg/ml in DW	
F3	Hexamethylene-tetramine mandelate salt (= methenamine mandelate)	4 mg/ml	400 mg/ml in DW	

Store antibiotics stock solutions in aliquots at -20°C .

DO NOT add antibiotics to hot food, as this will seriously affect their potency. Add as a dilution from stock to give the final concentrations shown. We dilute the stocks so that we add 100 μl of solution to vials and 500 μl of solution to bottle. Note that these are different dilutions, assuming your bottles contain 7-10 times as much food as the vials. Dry as long as needed.

The latter two combinations are bacteriocidal against all four candidate contaminant cultures we've tested. Fly viability appears unaffected by any of them, and learning and 3 hr retention is normal for flies grown on medium containing either of the former two combinations.