

Supporting Information

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Table S1. Composition of standard diet for *Manduca sexta* based on ref. 1 and of the various diets used in this paper

Ingredient	Standard diet*	Base diet*	Sucrose diet*	Casein diet*	Lipid diet*
Wheat germ	104.35	—	—	—	—
Casein	46.96	—	—	58	—
Sucrose	41.74	—	70	—	—
Wesson's salt	15.65	15.65	15.65	15.65	15.65
Torula yeast	20.87	—	—	—	—
Cholesterol	4.54	—	—	—	4.54
Sorbic acid	2.61	2.61	2.61	2.61	2.61
Methyl paraben	1.3	1.3	1.3	1.3	1.3
Ascorbic acid	6.52	6.52	6.52	6.52	6.52
Streptomycin	0.26	0.26	0.26	0.26	0.26
Kanamycin	0.07	0.07	0.07	0.07	0.07
Formaldehyde	0.11%	0.11%	0.11%	0.11%	0.11%
Vitamin mixture	1.30%	1.30%	1.30%	1.30%	1.30%
Raw linseed oil	0.54%	—	—	—	0.54%
Gelcarin	15.9	15.9	15.9	15.9	15.9

*Numbers indicate gm/L diet except for the liquids, which are given as % (vol/vol) of the final diet. —, none present.

1. Bell RA, Joachim FG (1976) Techniques for rearing laboratory colonies of tobacco hornworms and pink bollworms. *Ann Entomol Soc Am* 69:365–373.