

Table 1 Mortality of rat pups by the end of the 3rd week of lactation

Groups	Number of newborn pups	Number of dead pups	Dead pups/total born (%)
Control	74	6 <i>P</i> < 0.001 ^a	8.1%
GM soy	64	33	51.6%
GM soy protein isolate	33	5 <i>P</i> < 0.01 ^a	15%
Traditional soy	50	5 <i>P</i> < 0.001 ^a	10%

^aCompared with the GM-soy flour-supplemented group.

Table 2 Comparison of different kinds of chow on rat pup mortality^b

Groups	Number of pups born per female	Number of pups born	Number of dead pups	Dead pups/total born (%)
Usual chow	~ 11	74	6	8.1%
Chow containing 14% GM soy content	~ 10	72	24	33.3%
Usual chow plus GM soy	~ 11	64	33	51.6%
Chow containing 14% GM soy content plus GM soy	~ 10	89	46	51.7%

^bBy end of the 3rd week of lactation.

Table 3 Distribution of weights of pups in 2 weeks after birth

Groups	50–40 g	40–30 g	30–20 g	20–10 g
Control	8.2%	38.8%	40.8%	12.2% (<i>P</i> < 0.05) ^a
Traditional soy	0%	9.7%	77.4%	12.9% (<i>P</i> < 0.05) ^a
GM soy protein isolate	0%	21%	72%	7.0% (<i>P</i> < 0.05) ^a
GM soy	0%	26%	40.7%	33.3%

^aIn comparison with GM soy.

Table 4 Examples of absolute values of organ mass^a in pups 3 weeks after birth

Experiment	Body	Liver	Lungs	Heart	Individual kidney	Spleen	Testes	Brain
Control	69	3.80	1.20	0.37	0.44 and 0.44	0.52	0.34/0.34	1.67
Control	72	4.63	1.55	0.38	0.52 and 0.42	0.81	0.3/0.3	1.6
GM soy	35	1.83	0.6	0.19	0.28 and 0.28	0.21	0.13/0.14	1.60
GM soy	30	1.68	0.5	0.20	0.2 and 0.19	0.19	0.14/0.18	1.54
Conventional soy	62	4.28	0.95	0.36	0.38 and 0.38	0.24	0.22/0.26	1.76
Conventional soy	63	4.35	0.94	0.39	0.42 and 0.42	0.32	0.23/0.22	1.66
GM soy protein isolate	63	3.71	1.04	0.47	0.44 and 0.44	0.36	0.2/0.19	1.62
GM soy protein isolate	63	3.46	1.42	0.41	0.43 and 0.33	0.38	0.23/0.24	1.74

^aOrgans fixed in formaldehyde, 0.1 M PBS, pH 7.2.

Table 5 Success of mating of first-generation (F₁) offspring receiving GM soy

Females (number)	Males (number)	GM soy feeding scheme	Mating scheme	Number of rat pups F ₂
12 F ₁	12 F ₁	Continuation of GM soy additives for females and males	3 females × 3 males (in turn) <i>n</i> = 36	0
12 F ₁	12 F ₁	Feeding by GM soy was stopped before mating for females and males	3 females × 3 males (in turn) <i>n</i> = 36	0
12 F ₁	12 controls (from mothers that didn't receive any soy additives)	Stopping of GM-soy additives before mating for females	3 females × 3 males (in turn) <i>n</i> = 36	72