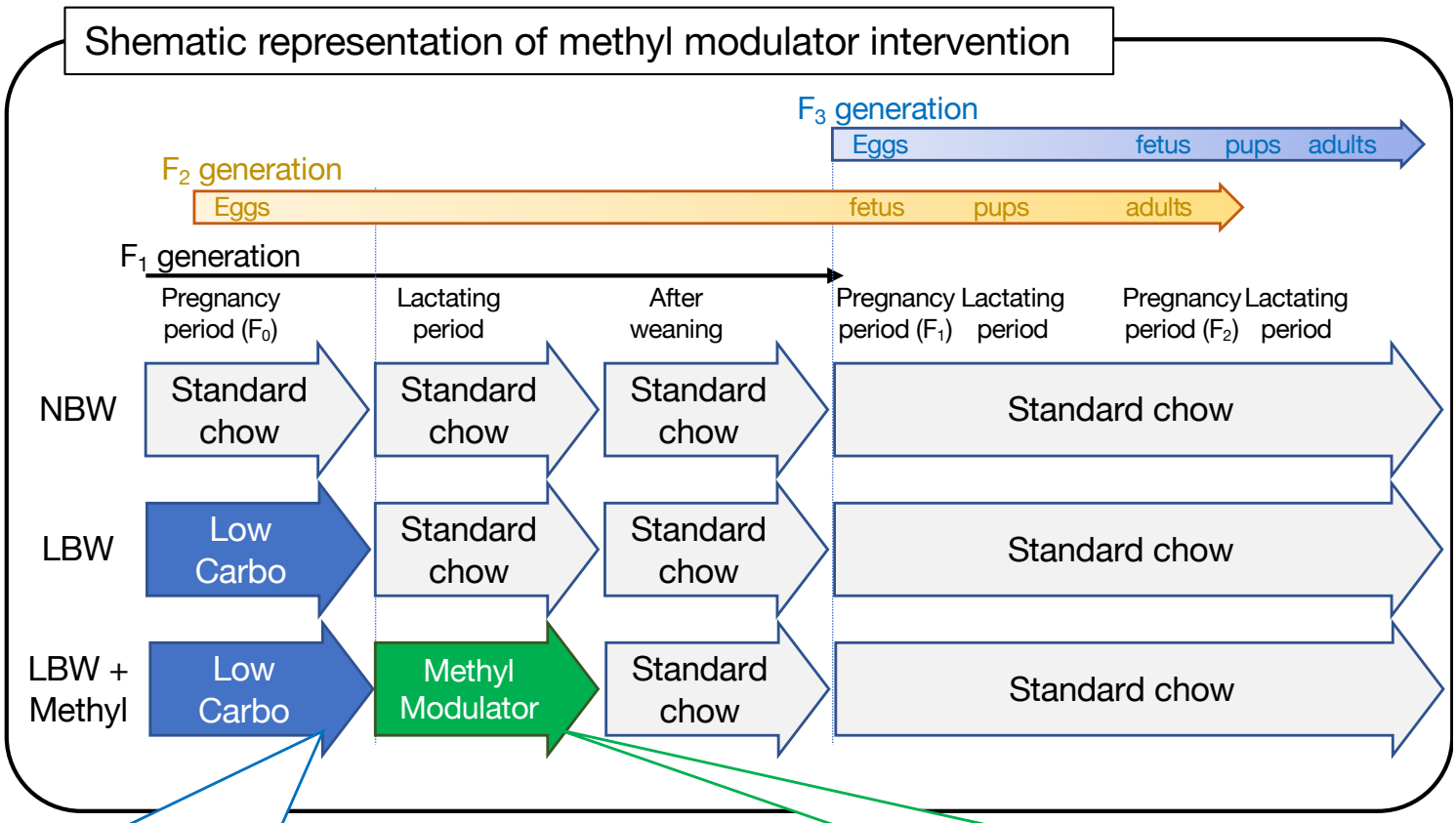

Ingredient	Low carbohydrate diet	Standard Chow
Casein	200	200
Corn Starch	**110**	**315**
Sucrose	**149**	**350**
Soybean Oil	25	25
Lard	20	20
Mineral Mix	10	10
Vitamin Mix	10	10
Kcal/gm	**3.75**	**3.85**

Ingredient	Methyl modulated diet	Standard Chow
Folic acid (mg/kg)	**15.5**	**2.0**
Vitamin B12 (mg/kg)	**0.150**	**0.015**
Riboflavin (VB2) (mg/kg)	5.8	6.1
Pyridoxine (VB6) (mg/kg)	6.5	6.8
Choline (mg/kg)	**13.6**	**0.8**
Zinc (mg/kg)	**162.0**	**27.5**
Betaine (g/kg)	**13.6**	**0**
Methionine (g/kg)	5.04	5.04

Fig.S1