Supplementary Table 2. Nutrient constraints applied during all linear optimization procedures.

Upper and/or lower limits that the optimized food supply had to comply with

	Lower	Upper
	limit	limit
Energy (kcal) ^a	674	674
Carbohydrates (%E)	45	60
Fat (%E)	22	40
Protein (%E)	10	20
Fiber (%E) ^c	2	
Saturated fatty acids (%E)	_	10
Mono/disaccharides (%E)		10
Mono unsaturated fatty acids (%E)	10	20
Poly unsaturated fatty acids (%E)	5	10
Vitamin A (μg) ^b	188	_
Vitamin D (μg) ^b	3.1	_
Vitamin E (mg) ^b	2.2	_
Thiamine (mg) ^b	0.3	_
Riboflavin (mg) ^b	0.4	_
Vitamin C (mg) ^b	16.0	_
Niacin (mg) ^b	4.6	_
Vitamin B6 (mg) ^b	0.4	_
Vitamin B12 (μg) ^b	0.6	_
Folate (μg) ^b	62.7	_
Phosphor (mg) ^b	199	_
Iodine (μg) ^b	43.2	_
Iron (mg) ^b	3.4	_
Calcium (mg) ^b	282	_
Potassium (mg) ^b	971	_
Magnesium (mg) ^b	87.7	_
Salt (g) ^c	_	3.6
Selenium (μg) ^b	12.5	_
Zink (mg) ^b	3.4	_
Omega-3 fatty acids (%E)b	3.3	

^aBased on 30% of daily estimated energy requirement (EER) for an average pupil, 10-12 years, both sexes. ^bLower limit based on 30% of daily recommended intakes (RIs) for an average pupil, 10-12 years, both sexes.

^cUpper limit based on 30% of daily recommended intake (RIs) for an average pupil, 10-12 years, both sexes.