

Additional file 1. Nutrient content of 150g daily intake of WFP wheat-soya with sugar Super Cereal food supplement, in relation to the nutrients listed in the DFID TORs, FAO-WHO vitamin and mineral requirements⁵³. Remarks contain notes about nutrients where appropriate.

Nutrient	Per 100g dry weight of super cereal	per 150 g dry weight of super cereal	Unit	Notes on Super Cereal version 13	Nutrients as specified by DFID	DFID stipulation	% of DFID stipulation	UNIMAP multiple micro-nutrient supplement*	% of UNIMAP formulation
Energy	380	570	kcal	minimum	Kcal	350-500	114%		
Protein	17	17	%	17% (N x 6.25) minimum	Protein, % of energy	<25			
Fat	3.8	3.8	%	3.8% maximum	Fat				
Crude fibre	4.5	4.5	%	4.5% maximum	Crude fibre				
Micronutrients from Vitamin/Mineral premix FBF-V-13									
Vitamin A	3460	5190	IU	Dry Vitamin A Palmitate 250 Cold Water Dispersible Stabilized	Retinol, µg	800		800	NA
Vitamin D3	441.6	662.4	IU	Dry Vitamin D3 100 Water Dispersible	Vitamin D, IU	200	331%		
Vitamin E TE	8.3	12.45	mg	Stabilized Dry Vitamin E Acetate 50% Water Dispersible	Vitamin E, mg	10	125%	200	6%
Vitamin K1	30	45	µg	Dry Vitamin K1 5% Water Dispersible	Vitamin K, µg			70	64%
Vitamin B1	0.2	0.3	mg	Thiamine mononitrate	Thiamine, mg	1.4	21%		
Vitamin B2	1.4	2.1	mg	Vitamin B2 fine powder (Riboflavin)	Vitamin B2, mg	1.4	150%	18	12%
Vitamin B6	1	1.5	mg	Pyridoxine hydrochloride	Vitamin B6, mg	1.9	79%		
Vitamin C	90	135	mg	Ascorbic acid	Vitamin C, mg	70	193%	10	1350%
Pantothenic acid	1.6	2.4	mg	Calcium D Panthotenate	Vitamin B5, mg			1.4	171%
Folate, (DFE)	110	165	µg	Folic acid*	Folic acid, µg	400	41%	400	41%
Niacin (Vit B3)	8	12	mg	Niacinamide	Niacin, mg	18	67%	1.4	857%
Vitamin B12	2	3	µg	Vitamin B12 0.1% or 1% Spray Dried	Vitamin B12, µg	2.6	115%		
Biotin	8.2	12.3	µg	Biotin 1%	Vitamin B7, µg			1.9	647%
Iodine	40	60	µg	Potassium Iodide*	Iodine, µg	150	40%	65	92%
Iron (a)	4	6	mg	Ferrous fumarate fine powder	Iron, mg	30	33%	30	20%
Iron (b)	2.5	3.75	mg	Iron-sodium EDTA					
Zinc	5	7.5	mg	Zinc Sulphate Monohydrate	Zinc, mg	15	50%	2.6	288%
Carrier				Corn maltodextrin					
Other minerals									
Potassium	140	210	mg	Potassium Chloride with 0.5% silicon dioxide as anticaking agent, compliant with food chemical codex, min 90%<425 micron and min 60%<250 micron	Potassium, mg				
Calcium	362	543	mg	Dicalcium Phosphate Anhydrous, compliant with food chemical codex, min 95%<250 micron, total aerobic	Calcium, mg				
Phosphorous	280	420	mg		Phosphorous, mg				
Copper, mg					Copper, mg	2		15	
Selenium, µg					Selenium, µg	65		2	
Sodium, mg					Sodium, mg	minimum		150	
* Adequate dilution must be used in order to guarantee premix homogeneity						*as used in Osrin 2005			