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| **Supplementary Table S1.** Nutritional composition of trial supplements – amounts per daya |
| Nutrient | First phase supplement (from recruitment to 2 weeks of ART) | Second phase supplement (from 2 to 6 weeks of ART) |
| LNS(30 g) | LNS-VM(30 g) | LNS(250 g) | LNS-VM(250 g) |
| Calories (kcal) | 168 | 139 | 1416 | 1397 |
| Protein (g) | 2.3 | 2.4 | 55 | 55 |
| Fat (g) | 10.9 | 11.0 | 97.5 | 97.5 |
| Potassium (mmol) | 0.9 | 30 | 15.8 | 32 |
| Phosphorus (mmol) | 0.4 | 47 | 9.3 | 38 |
| Magnesium (mmol) | 0.3 | 16 | 5.7 | 17 |
| Calcium (mg) | 5.0 | 29.8 | 115 | 140 |
| Iron (mg) | 0.4 | 0.4 | 8.4 | 14.7 |
| Zinc (mg) | 0.2 | 21 | 3.8 | 21 |
| Copper (mg) | 0.06 | 3.6 | 1.2 | 3.6 |
| Manganese (mg) | - | 4.2 | - | 4.2 |
| Iodine (µg) | - | 420 | - | 420 |
| Selenium (microg) | - | 180 | - | 180 |
| Chromium (µg) | - | 75 | - | 75 |
| Retinol (as palmitate) (µg) | - | 1800 | - | 1800 |
| Vitamin D (µg) | - | 10 | - | 10 |
| Vitamin E (mg) | - | 45 | - | 45 |
| Vitamin K (µg) | - | 95 | - | 95 |
| Vitamin C (mg) | - | 120 | - | 120 |
| Thiamin (mg) | - | 2.4 | - | 2.4 |
| Riboflavin (mg) | - | 3.3 | - | 3.3 |
| Niacin (mg) | - | 39 | - | 39 |
| Pyridoxine (mg) | - | 3.6 | - | 3.6 |
| Folate (µg) | - | 600 | - | 600 |
| Vitamin B12 (µg) | - | 4.5 | - | 4.5 |
| Pantothenic acid (mg) | - | 9 | - | 9 |
| ART, antiretroviral therapy; LNS, Lipid-based nutritional supplement, LNS-VM, LNS with added vitamins and minerals a Where nutrient contents are provided for both LNS and LNS-VM, these are values from analysis by the manufacturer, accounting for inter-batch variability; where values for only LNS-VM are given, these where not assessed in the prepared foods but refer to amounts added, that is, they do not include those innate to the LNS.  |