

Food Analyses of the Department of Human Nutrition
(Voedingsmiddelenanalyses van de Vakgroep Humane Voeding)

Volume III

NUTRIENT COMPOSITION OF 167 FOOD ITEMS FROM GHANA,
THE PHILIPPINES, ITALY AND FINLAND



VAKGROEP HUMANE VOEDING

FOOD ANALYSES OF THE DEPARTMENT OF HUMAN NUTRITION
(Voedingsmiddelenanalyses van de Vakgroep Humane Voeding)

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Volume III

Nutrient Composition of 167 Food Items from Ghana, The Philippines, Italy and Finland

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PREFACE

This report forms Volume III of a series entitled "Food analyses of the Department of Human Nutrition" (Voedingsmiddelenanalyses van de Vakgroep Humane Voeding). The series is published by the Department of Human Nutrition, Agricultural University, Wageningen, The Netherlands, for the benefit of scientists and medical workers. The present volume is published in English; other volumes, which describe analyses of Dutch foods only, have been or will be published in Dutch. We are grateful to the Netherlands Heart Foundation for the financial support which made these analyses possible, and to all those who have contributed in other ways to the research described here.

INTRODUCTION

In 1981, an international study on food consumption and serum lipids in boys was carried out in Ghana, The Philippines, Italy, Finland and The Netherlands. This study was carried out by workers from the Department of Human Nutrition of the Agricultural University in Wageningen, The Netherlands, in cooperation with scientists in institutes in the participating countries. The results of this study have been published (1).

As a part of the study, food samples were collected and analysed to obtain information on the nutrient composition of those food items consumed by the boys for which data were unavailable. Particular attention was paid to food items rich in energy, rich in fat and rich in cholesterol, especially those which contributed in a major way to the intake of macronutrients and cholesterol for a relatively large proportion of the boys. The analytical results obtained were also needed to check the corresponding data in the local food composition tables.

Samples were analysed for the content of water, protein, fat and cholesterol and the fatty acid composition of the fat was also determined. The total carbohydrate content was calculated by difference and thus includes dietary fibre and ash. All analyses were carried out in the Food Analysis Laboratory of the Department of Human Nutrition in Wageningen.

MATERIALS AND METHODS

Collection of food samples

The procedures followed in this study have been described in a working plan (2). Samples were collected in the regions where the study was carried out. The foods were bought from local markets or in local shops or, in the case of home-prepared dishes, collected in the homes. The minimum amount of the product collected was 250 grams. The number of samples collected was one for samples of a brand of canned food or a food item in a standard package, such as margarine, tinned sardines in oil etc., and three to seven for samples of foods with a larger variation in composition.

After collection, the products were stored at -20°C , except for products that could be stored without freezing, such as canned foods, oils, cookies etc. Solid foods were packed in properly sealed plastic bags; liquid foods in properly closed polyethylene flasks. Samples were transported frozen to the Netherlands by air express using styrofoam boxes with dry ice (Italy, Finland, The Philippines) or cooling elements (Ghana), and were stored at -20°C . The analyses were carried out within four months after arrival.

Analytical methods

The amount of proteins was estimated according to the method of Kjeldahl as described (3, 4) with the modification that 7 g Na_2SO_4 and 7 mg selenium were used as catalysts. Factors for the conversion of nitrogen values to protein used were according to the guidelines given by Southgate (5). If no specific factor was given the factor 6.25 was used.

The amount of fat was estimated using the method described by Folch et al. (6). For the analysis of the fatty acid composition of the lipids, fatty acid methyl esters were prepared according to Metcalfe et al. (7). After esterification, the fatty acid methyl esters were separated using a gas chromatograph (Model 2100, Varian Associates, Palo Alto, CA 94303, U.S.A.) with flame ionisation detector. The chromatograph was fitted with a glass column (180 cm \times 2 mm) packed with Chromosorb WHP (80/100 mesh) coated with Silar 5CP (10% w/w) obtained from Chrompack (Middelburg, The Netherlands). The operating conditions were: column temperature, 210°C ; injector and detector temperature, 240°C ; and helium flow rate 30 ml/min. For milk products, the operation conditions were: initial temperature 80°C , final temperature 210°C , rise $8^{\circ}\text{C}/\text{min}$ immediately after sample injection. The fatty acid composition of fish lipids was analysed using a glass column (180 cm \times 2 mm) packed with SP 2330 (10% w/w) on 100/120 Chromosorb W-AW operating at 200°C with helium (30 ml/min) as carrier gas.

The proportions of the individual fatty acids were calculated as proportions by weight of the sum of the saturated fatty acid methyl esters with chain length of 4, 6, 8, 10, 12, 14, 15, 16, 17, 18, 20, 22 or 24 carbon atoms, the mono-unsaturated fatty acids with chain length of 14, 16, 18, 20, 22 or 24 carbon atoms and the polyunsaturated fatty acids $\text{C}_{18:2}$, $\text{C}_{18:3}$, $\text{C}_{20:2}$, $\text{C}_{20:3}$, $\text{C}_{20:4}$, $\text{C}_{22:4}$ and $\text{C}_{22:6}$. These fatty acids accounted for at least 95% of the total fatty acids.

Cholesterol and other sterols were isolated from the foods according to Van de Bovenkamp and Katan (8) using toluene as solvent instead of benzene. The sterols were separated according to Nordby and Nagy (9) using a gas chromatograph Model 427 (Packard, Delft, The Netherlands) with a flame ionisation detector. The chromatograph was fitted with a glass column (180 cm \times 2 mm) packed with Supelcoport (100/120 mesh) coated with SP 2250 (3% w/w) obtained from Supelco (Bellefonte, PA 16823, U.S.A.). The operating conditions were: column temperature, 265°C , injector and detector temperature, 285°C and 300°C ; and helium flow rate 30 ml/min.

Moisture was determined as the weight loss after overnight drying of a duplicate sample in a vacuum oven at 70°C as described by Ballschmieter (10). Carbohydrates including dietary fibre and ash were estimated as total weight minus water, protein, fat and ash.

RESULTS AND DISCUSSION

Data on the samples of the foods taken for analysis are given in Appendices 1 to 4. The data in the appendices and the food analyses themselves (Tables 1 to 8) are arranged first, by the country in which the foods were collected (Ghana, The Philippines, Italy and Finland); secondly, by class of food; and thirdly by the number used in the local food composition table. For reference purposes, the laboratory code for the analyses are also included in the tables. Data on the proximal analysis, cholesterol and, where measured, phytosterol content and the proportion of the various fatty acid classes of the fat (saturated, mono-unsaturated and polyunsaturated fatty acids) are given in Tables 1, 2, 3 and 4 while data on the fatty acid composition of the fat present in the foods are given in Tables 5, 6, 7 and 8.

The main aim of the work presented here was to collect information on the nutrient composition of unknown products for our research project thus enabling a more precise estimate of the daily nutrient intake of the children participating in the study. By publishing the report in this way, it is hoped that much of these data will be incorporated into the local food composition tables so that the data can become more generally available.

The second aim of the work was to collect information to enable us to compare the data in the different local food composition tables. For this purpose, a limited number of products were analysed as shown in Table 9, the number of those products analysed for comparative purposes in which the analyses differed by more than 5 g/100 g edible portion from the data in the food composition tables are given. The greatest number of products with such differences are found for the analysis of water, which usually consists of more than 50% of the product or for carbohydrate which often makes up a high proportion of the food and for which the data is more prone to error as it has been calculated by difference.

In Table 10, products are listed, in which the present data and that in the local food composition tables differ by more than 5 g/100 g edible portion. These differences are due not only to analytical error but also to differences in the products analysed. Such differences could be attributable to the natural variation in the product, species or strain of the original material itself, time of year, ripeness, feeding of the plant or animal and the method of food preparation (for example, cleaning and cutting of meat or fish), different methods of food preparation, etc.

In conclusion, it can be said that the data from the present analyses do not differ markedly from the data in the local food composition tables for most products. Most of the variation is due to differences in the content of water and carbohydrate. It was also seen that meat, dairy products and vegetable oils collected in the various countries had a similar fatty acid composition. Thus it would appear that such data obtained in one country would be applicable to other countries.

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Table 1. Proximate composition, content of cholesterol and phytosterols and the proportion of fatty acids as saturated, mono-unsaturated and polyunsaturated fatty acids of food samples from Ghana

| Food table no. | Food | Lab code | Proximate composition, weight/100 g edible portion | | | | | | Proportion of classes of fatty acids g/100 g total fatty acids ¹ | | | | |
|---------------------------------|-----------------------------------|----------|--|-----------|-------|----------------------|----------------|-----------------|---|------|------|----------------|--|
| | | | Water g | Protein g | Fat g | Total carbohydrate g | Cholesterol mg | Phytosterols mg | SFA | MUFA | PUFA | Not identified | |
| <i>Cereal products</i> | | | | | | | | | | | | | |
| 10 | akassa, koko | 554 | 93.8 | 0.5 | 0.4 | 5.3 | — ² | — | — | — | — | — | |
| 11 | akpler | 586 | 66.6 | 1.4 | 0.8 | 31.2 | — | — | — | — | — | — | |
| 13 | banku | 555 | 70.6 | 2.7 | 1.3 | 25.4 | — | — | — | — | — | — | |
| 19 | kenkey, Ga | 556 | 64.2 | 3.6 | 1.7 | 30.5 | — | — | — | — | — | — | |
| 20 | kenkey, Fante | 557 | 70.5 | 3.0 | 1.4 | 25.1 | — | — | — | — | — | — | |
| 29 | rice, raw | 558 | 8.4 | 8.1 | 1.0 | 82.5 | — | — | — | — | — | — | |
| 31 | rice, cooked | 559 | 64.7 | 2.9 | 0.4 | 32.0 | — | — | — | — | — | — | |
| 35 | wheat bread | 560 | 24.3 | 11.7 | 3.7 | 60.3 | — | — | 25.8 | 16.6 | 57.6 | — | |
| 37 | togbei ³ | 573 | 28.0 | 9.5 | 6.9 | 55.6 | — | — | 86.8 | 8.3 | 4.3 | 0.6 | |
| 350 | biscuits | 582 | 35.4 | 8.8 | 6.7 | 49.1 | — | — | 36.6 | 43.7 | 12.6 | 7.2 | |
| 429 | ricewater | 609 | 90.6 | 1.0 | 0.3 | 8.1 | — | — | — | — | — | — | |
| 434 | wheat | 610 | 62.4 | 4.6 | 1.8 | 31.2 | — | — | — | — | — | — | |
| <i>Starchy roots and fruits</i> | | | | | | | | | | | | | |
| 39 | cassava, raw | 561 | 57.2 | 0.7 | 0.5 | 41.6 | — | — | — | — | — | — | |
| 40 | cassava, boiled | 587 | 59.6 | 0.7 | 0.5 | 39.2 | — | — | — | — | — | — | |
| 44 | cassava balls, fried | 588 | 19.5 | 0.7 | 6.8 | 73.0 | — | — | 88.6 | 8.8 | 2.4 | 0.1 | |
| 46 | gari | 562 | 7.7 | 0.9 | 1.1 | 90.3 | — | — | — | — | — | — | |
| 47 | kokonte | 563 | 71.1 | 0.5 | 0.5 | 27.9 | — | — | — | — | — | — | |
| 49 | yake yake | 589 | 53.2 | 0.4 | 0.5 | 45.9 | — | — | — | — | — | — | |
| 53 | cocoyam, boiled | 564 | 59.2 | 3.0 | 0.6 | 37.2 | — | — | — | — | — | — | |
| 57 | plantain, unripe boiled | 565 | 62.9 | 1.2 | 0.8 | 35.1 | — | — | — | — | — | — | |
| 58 | plantain, ripe boiled | 566 | 61.8 | 1.1 | 0.7 | 36.4 | — | — | — | — | — | — | |
| 59 | plantain, roasted | 567 | 48.2 | 1.7 | 0.7 | 49.4 | — | — | — | — | — | — | |
| 61 | plantain, fufu | 568 | 63.1 | 0.7 | 0.4 | 35.8 | — | — | — | — | — | — | |
| 67 | yam, raw | 569 | 63.0 | 2.1 | 0.2 | 34.7 | — | — | — | — | — | — | |
| 68 | yam, boiled | 570 | 61.5 | 1.8 | 0.3 | 36.4 | — | — | — | — | — | — | |
| 71 | yam ³ | 577 | 45.9 | 3.3 | 5.5 | 45.3 | — | — | 66.3 | 20.3 | 13.1 | 0.2 | |
| 151 | banana | 571 | 68.1 | 1.3 | 0.3 | 30.2 | — | — | — | — | — | — | |
| 330 | plantain, ripe ⁴ | 574 | 50.2 | 1.4 | 2.7 | 45.7 | — | — | 76.4 | 16.7 | 5.7 | 1.2 | |
| 331 | plantain, ripe ³ | 576 | 46.5 | 1.5 | 7.1 | 44.9 | — | — | 90.8 | 6.6 | 2.6 | — | |
| 335 | cocoyam, porridge | 579 | 76.0 | 1.3 | 4.5 | 18.2 | — | — | 54.7 | 35.5 | 9.9 | — | |
| 454 | cocoyam ⁴ | 574 | 30.8 | 3.4 | 3.6 | 62.2 | — | — | 77.4 | 17.3 | 3.6 | 1.7 | |
| 559 | plantain balls, ripe ³ | 611 | 37.5 | 2.6 | 13.5 | 46.5 | — | — | 75.5 | 19.1 | 5.4 | — | |
| <i>Legumes</i> | | | | | | | | | | | | | |
| 336 | beans ⁵ | 580 | 72.2 | 5.5 | 5.2 | 17.1 | — | — | 48.4 | 37.5 | 13.9 | 0.2 | |
| <i>Nuts and seeds</i> | | | | | | | | | | | | | |
| 88 | groundnuts, roasted | 578 | 10.1 | 25.6 | 52.2 | 12.1 | — | — | 24.1 | 49.2 | 26.5 | 0.1 | |
| 102 | coconut flesh | 590 | 86.4 | 0.7 | 4.0 | 8.9 | — | — | 81.3 | 13.4 | 5.2 | 0.1 | |
| 104 | coconut milk | 591 | 91.9 | 0.2 | 0.2 | 7.7 | — | — | — | — | — | — | |
| <i>Soups</i> | | | | | | | | | | | | | |
| 167 | groundnut soup | 594 | 70.2 | 6.4 | 10.3 | 13.1 | 5 | 24 | 27.0 | 47.1 | 24.6 | 1.3 | |
| 168 | light soup | 595 | 93.0 | 0.8 | 0.2 | 6.0 | — | — | — | — | — | — | |
| 170 | okro soup | 597 | 88.9 | 1.4 | 1.9 | 7.8 | 5 | 5 | 58.5 | 34.0 | 4.4 | 3.1 | |
| 173 | palm soup | 550 | 82.0 | 1.2 | 13.9 | 2.9 | 3 | 6 | 50.9 | 39.0 | 9.7 | 0.4 | |
| 570 | okro soup ⁵ | 615 | 85.5 | 1.7 | 9.7 | 3.1 | — | — | 49.4 | 40.2 | 10.4 | — | |

Table 1, continued

| Food table no. | Food | Lab code | Proximate composition, weight/100 g edible portion | | | | | | Proportion of classes of fatty acids, g/100 g total fatty acids ¹ | | | |
|----------------------------|------------------------------|----------|--|-----------|-------|----------------------|----------------|-----------------|--|------|------|----------------|
| | | | Water g | Protein g | Fat g | Total carbohydrate g | Cholesterol mg | Phytosterols mg | SFA | MUFA | PUFA | Not identified |
| <i>Stews</i> | | | | | | | | | | | | |
| 164 | agushie stew | 592 | 59.4 | 5.4 | 25.8 | 9.4 | 5 | 78 | 43.6 | 31.5 | 24.8 | 0.1 |
| 165 | bean stew | 593 | 62.6 | 6.6 | 11.6 | 19.2 | 6 | 30 | 47.8 | 39.2 | 13.1 | — |
| 169 | nkontomire stew | 596 | 63.0 | 1.6 | 24.9 | 10.5 | 2 | 71 | 49.7 | 37.2 | 13.0 | 0.1 |
| 171 | okro and garden egg stew | 598 | 64.8 | 2.0 | 21.3 | 11.9 | 25 | 39 | 47.7 | 38.4 | 13.4 | 0.5 |
| 335 | pie | 608 | 19.9 | 11.1 | 16.3 | 52.7 | 5 | 52 | 39.2 | 30.4 | 30.5 | — |
| 339 | rice and stew | 549 | 66.9 | 2.4 | 2.1 | 28.6 | 1 | 6 | 81.1 | 11.7 | 6.4 | 0.8 |
| 340 | rice and beans | 581 | 62.7 | 2.8 | 6.9 | 27.6 | — | — | 74.9 | 19.2 | 5.8 | 0.1 |
| 572 | garden egg stew | 616 | 69.7 | 2.9 | 19.7 | 7.7 | 16 | 33 | 48.7 | 37.7 | 13.4 | 0.2 |
| <i>Sauces</i> | | | | | | | | | | | | |
| 172 | palaver sauce | 599 | 58.7 | 3.4 | 30.2 | 7.7 | 5 | 86 | 47.2 | 35.2 | 17.4 | 0.2 |
| 566 | gravy ³ | 612 | 46.1 | 0.9 | 44.7 | 8.3 | 1 | 42 | 91.8 | 6.6 | 1.7 | — |
| 567 | gravy ⁴ | 613 | 43.4 | 0.8 | 46.2 | 9.6 | 3 | 64 | 85.1 | 12.4 | 2.4 | — |
| 568 | gravy ⁵ | 614 | 58.4 | 1.0 | 31.5 | 9.1 | 5 | 50 | 48.2 | 38.6 | 13.1 | 0.1 |
| <i>Meat</i> | | | | | | | | | | | | |
| 197 | cowhide | 554 | 75.9 | 25.5 | 0.5 | — | 21 | — | 47.1 | 42.0 | 2.7 | 8.3 |
| 199 | snails | 542 | 75.5 | 16.3 | 1.5 | — | 140 | — | 27.8 | 40.6 | 26.1 | 5.5 |
| <i>Fish and shell-fish</i> | | | | | | | | | | | | |
| 217 | anchovy, smoked | 544 | 10.9 | 65.9 | 8.9 | — | 317 | — | 37.0 | 17.7 | 38.4 | 6.8 |
| 218 | anchovy, sun-dried | 545 | 9.1 | 65.4 | 7.6 | — | 364 | — | 39.2 | 18.2 | 36.8 | 5.8 |
| 226 | kako | 600 | 31.1 | 40.7 | 2.4 | — | 142 | — | 44.9 | 28.1 | 18.8 | 8.2 |
| 228 | crab | 601 | 59.5 | 13.0 | 1.1 | — | 52 | — | 28.4 | 28.2 | 33.4 | 10.0 |
| 233 | mackerel, smoked | 551 | 61.5 | 25.4 | 11.1 | — | 93 | — | 30.2 | 44.3 | 24.6 | 1.3 |
| 239 | mackerel, tomatoes | 552 | 59.9 | 12.4 | 23.6 | — | 56 | — | 22.3 | 46.4 | 29.3 | 2.0 |
| 249 | sardines, smoked | 543 | 10.0 | 70.0 | 8.5 | — | 370 | — | 39.5 | 17.7 | 37.4 | 5.4 |
| 250 | sardines, fried ³ | 603 | 3.3 | 39.4 | 36.6 | — | 189 | 59 | 81.2 | 13.8 | 3.6 | 3.9 |
| 260 | sardines, canned | 553 | 52.1 | 20.6 | 22.4 | — | 78 | 89 | 16.8 | 39.3 | 43.7 | 0.3 |
| 262 | seabream, smoked | 546 | 58.9 | 37.8 | 2.9 | — | 124 | — | 38.5 | 14.7 | 41.0 | 5.8 |
| 270 | triggerfish | 604 | 44.7 | 34.8 | 2.0 | — | 124 | — | 45.5 | 20.6 | 20.7 | 13.1 |
| 272 | tuna, smoked | 547 | 62.3 | 31.8 | 1.9 | — | 63 | — | 51.2 | 29.4 | 14.7 | 4.7 |
| 282 | tilapia, salted | 605 | 37.8 | 37.9 | 4.8 | — | 160 | — | 51.7 | 31.1 | 12.7 | 4.5 |
| 341 | herring, smoked | 541 | 54.5 | 43.5 | 3.2 | — | 103 | — | 45.7 | 25.8 | 26.9 | 1.6 |
| 679 | tilapia ⁴ | 617 | 10.9 | 36.4 | 35.6 | — | 239 | 62 | 77.4 | 17.4 | 5.2 | — |
| 683 | tilapia ³ | 548 | 10.8 | 36.5 | 40.5 | — | 169 | 39 | 72.2 | 21.7 | 6.1 | — |
| 684 | fishmix, smoked | 618 | 43.9 | 47.6 | 4.4 | — | 256 | — | 38.4 | 25.3 | 35.9 | 0.4 |
| 6175 | fishmix | 620 | 15.8 | 35.5 | 38.6 | — | 254 | — | 78.4 | 15.5 | 5.1 | 1.0 |
| <i>Dairy products</i> | | | | | | | | | | | | |
| 240 | milk, 'Nestlé' | 602 | 67.9 | 7.7 | 8.4 | 16.0 | 26 | — | 60.8 | 32.1 | 3.5 | 3.6 |
| <i>Oils and fats</i> | | | | | | | | | | | | |
| 308 | coconut oil | 583 | — | — | — | — | — | — | 79.9 | 12.6 | 7.5 | — |
| 311 | palm oil | 584 | — | — | — | — | — | — | 49.4 | 40.3 | 10.1 | 0.2 |
| 711 | palm kernel oil | 585 | — | — | — | — | — | — | 83.7 | 15.0 | 3.6 | — |
| 712 | margarine | 619 | 15.3 | — | 84.7 | — | 143 | 56 | 40.9 | 44.5 | 8.0 | 6.6 |
| <i>Miscellaneous</i> | | | | | | | | | | | | |
| 332 | toffee | 606 | 52.7 | 0.3 | 0.4 | 46.6 | — | — | — | — | — | — |
| 334 | milk candy | 607 | 2.6 | 17.1 | 0.5 | 79.8 | 12 | — | — | — | — | — |
| 351 | sugar cane | 572 | 79.8 | 0.3 | 0.2 | 19.7 | — | — | — | — | — | — |

¹ Proportion of fatty acids calculated as proportion of fatty acid methyl esters by weight SFA, saturated fatty acids; MUFA, mono-unsaturated fatty acids; PUFA, polyunsaturated fatty acids

² —, not measured or calculated

³ Prepared using coconut oil

⁴ Prepared using palm kernel oil

⁵ Prepared using palm oil

Table 2. Proximate composition, content of cholesterol and the proportion of fatty acids as saturated, mono-unsaturated and poly-unsaturated fatty acids of food samples from The Philippines

| Food table no. | Food | Lab code | Proximate composition, weight/100 g edible portion | | | | | Proportion of classes of fatty acids, g/100 g total fatty acids ¹ | | | | |
|--------------------------------|--|----------|--|-----------|-------|----------------------|----------------|--|------|------|----------------|--|
| | | | Water g | Protein g | Fat g | Total carbohydrate g | Cholesterol mg | SFA | MUFA | PUFA | Not identified | |
| <i>Cereal products</i> | | | | | | | | | | | | |
| 31 | mike, luto | 755 | 51.9 | 7.2 | 1.3 | 39.6 | — ² | 68.7 | 10.1 | 20.7 | 0.5 | |
| 967 | mamon | 742 | 15.2 | 5.9 | 15.2 | 63.7 | — | 85.7 | 8.4 | 4.7 | 1.2 | |
| 972 | american loaf | 743 | 25.6 | 10.7 | 5.4 | 58.3 | — | 69.9 | 11.6 | 14.7 | 4.8 | |
| 978 | pan de sal (bread) | 744 | 26.3 | 8.4 | 4.7 | 60.6 | — | 70.3 | 10.6 | 16.1 | 3.0 | |
| 1351 | biscuits marie | 781 | 4.2 | 9.1 | 9.1 | 77.6 | 10 | 75.6 | 11.9 | 11.0 | 1.5 | |
| 1703 | biscuits favorita | | | | | | | | | | | |
| 1704 | rice krupek | 782 | 3.3 | 6.7 | 17.4 | 72.6 | — | 89.4 | 7.1 | 3.5 | — | |
| 1710 | fried corn grits | 784 | 3.4 | 8.4 | 19.5 | 68.7 | — | 75.9 | 12.5 | 8.9 | 2.7 | |
| <i>Nuts and seeds</i> | | | | | | | | | | | | |
| 333 | coconut milk | 763 | 71.2 | 2.2 | 17.4 | 9.2 | — | 91.3 | 7.4 | 1.3 | — | |
| 1015 | peanut butter | 780 | 0.5 | 21.3 | 43.4 | 34.8 | — | 32.5 | 37.2 | 29.9 | 0.4 | |
| 1712 | fried peanuts ³ | 785 | 1.7 | 23.9 | 47.0 | 27.4 | — | 31.4 | 36.1 | 31.5 | 1.0 | |
| <i>Soups, stews and sauces</i> | | | | | | | | | | | | |
| 1068 | dinuguan | 751 | 80.9 | 7.6 | 9.8 | 1.7 | 48 | 55.8 | 37.9 | 4.9 | 1.4 | |
| 1587 | bopiz | 779 | 80.3 | 8.8 | 7.7 | 3.2 | 150 | 67.4 | 22.9 | 8.5 | 1.2 | |
| 1701 | beef mami | 753 | 86.4 | 2.8 | 2.1 | 8.7 | 12 | 55.4 | 36.8 | 6.1 | 1.7 | |
| 1705 | mungbean sotanghon | 752 | 83.6 | 3.5 | 1.2 | 11.7 | — | 81.3 | 8.6 | 9.9 | 0.2 | |
| <i>Meat and eggs</i> | | | | | | | | | | | | |
| 595 | beef, lean prepared ³ | 761 | 51.6 | 34.1 | 9.5 | — | 99 | 63.7 | 28.2 | 6.9 | 1.2 | |
| 664 | chicken, lean meat prepared ³ | 774 | 58.4 | 27.3 | 10.9 | — | 115 | 61.3 | 27.2 | 11.3 | 0.2 | |
| 1089 | cured pork meat, raw | 749 | 65.4 | 16.8 | 8.6 | — | 30 | 46.1 | 42.3 | 9.4 | 2.2 | |
| 1102 | hot dogs, unprepared | 746 | 57.9 | 11.5 | 27.2 | — | 55 | 39.7 | 47.4 | 10.9 | 2.0 | |
| 1165 | balut | 762 | 69.1 | 13.9 | 15.5 | — | 770 | 37.9 | 53.0 | 7.3 | 1.8 | |
| 1816 | chicken wings, prepared ³ | 773 | 42.5 | 32.3 | 26.3 | — | 213 | 58.6 | 29.5 | 11.5 | 0.4 | |
| 1817 | hot dogs, prepared ³ | 745 | 53.7 | 13.8 | 26.5 | — | 60 | 45.4 | 43.7 | 9.2 | 1.7 | |
| 1818 | longanisa, prepared ³ | 770 | 23.6 | 10.9 | 64.0 | — | 90 | 49.4 | 40.1 | 10.3 | 0.4 | |
| 1819 | cured pork meat, prepared ³ | 760 | 44.2 | 29.5 | 14.5 | — | 94 | 54.1 | 34.1 | 11.1 | 0.7 | |
| 1820 | pork, lean meat prepared ³ | 771 | 43.6 | 18.7 | 28.9 | — | 99 | 57.1 | 35.2 | 7.4 | 0.3 | |
| 1821 | pork, medium fat prepared ³ | 772 | 28.8 | 17.8 | 51.9 | — | 80 | 52.0 | 38.9 | 8.5 | 0.6 | |
| <i>Fish and shell-fish</i> | | | | | | | | | | | | |
| 749 | fish, fat raw (Bangus) | 747 | 72.3 | 19.5 | 7.1 | — | 63 | 52.1 | 38.8 | 12.6 | — | |
| 1226 | ayungin, dried | 759 | 25.4 | 38.2 | 7.1 | — | 528 | 50.0 | 31.2 | 13.9 | 4.9 | |
| 1810 | fish fat, prepared (Bangus) ³ | 748 | 58.6 | 22.6 | 13.9 | — | 91 | 63.2 | 25.8 | 8.0 | 3.0 | |
| 1811 | tunsoy dried, prepared ³ | 768 | 26.6 | 41.8 | 15.0 | — | 137 | 84.6 | 12.9 | 5.1 | — | |
| 1812 | tamban dried, prepared ³ | 769 | 29.6 | 40.8 | 12.3 | — | 126 | 78.7 | 14.7 | 6.4 | 0.2 | |
| 1814 | tamban smoked, prepared ³ | 767 | 41.5 | 34.0 | 19.0 | — | 110 | 73.4 | 15.8 | 12.0 | — | |
| 1830 | fish, lean raw | 775 | 78.7 | 18.2 | 1.1 | — | 68 | 50.2 | 25.9 | 21.7 | 2.3 | |
| 1831 | fish, lean prepared ³ | 776 | 60.4 | 23.8 | 9.7 | — | 98 | 83.7 | 11.4 | 5.7 | — | |
| 1832 | fish, medium fat raw | 777 | 75.4 | 20.9 | 3.1 | — | 110 | 55.0 | 31.1 | 10.8 | 3.2 | |
| 1833 | fish, medium fat prepared ³ | 778 | 52.7 | 30.1 | 15.9 | — | 106 | 84.5 | 10.4 | 4.5 | 0.6 | |
| <i>Dairy products</i> | | | | | | | | | | | | |
| 1153 | evaporated filled milk | 786 | 73.4 | 7.7 | 7.3 | 11.6 | 5 | 84.9 | 9.6 | 5.1 | 0.4 | |
| 1155 | condensed sweetened filled milk | 783 | 25.2 | 8.6 | 7.9 | 58.3 | 5 | 83.9 | 10.2 | 5.9 | — | |
| <i>Oils and fats</i> | | | | | | | | | | | | |
| 1302 | margarine | 757 | 10.0 | — | 89.5 | — | — | 86.8 | 9.9 | 2.8 | 0.5 | |
| 1711 | margarine-dairy cream | 756 | 17.6 | — | 83.0 | — | — | 76.5 | 19.5 | 3.7 | 0.3 | |
| <i>Drinks</i> | | | | | | | | | | | | |
| 1310 | ceylon moss beverage | 754 | 91.8 | — | — | 8.2 | — | — | — | — | — | |
| <i>Miscellaneous</i> | | | | | | | | | | | | |
| 1029 | turon | 741 | 43.4 | 2.0 | 11.7 | 42.9 | — | 86.8 | 8.1 | 4.2 | 0.9 | |
| 1708 | halo-halo | 750 | 77.7 | 1.6 | 0.9 | 19.8 | — | 73.3 | 15.7 | 8.9 | 2.1 | |

¹ Proportion of fatty acids calculated as proportion of fatty acid esters by weight. SFA, saturated fatty acids; MUFA mono-unsaturated fatty acids; PUFA, polyunsaturated fatty acids.² —, not measured or calculated³ Prepared using coconut oil

Table 3. Proximate composition, content of cholesterol and the proportion of fatty acids as saturated, mono-unsaturated and poly-unsaturated fatty acids of food samples from Italy

| Food table no. | Food | Lab code | Proximate composition, weight/100 g edible portion | | | | | Proportion of classes of fatty acids, g/100 g total fatty acids ¹ | | | |
|------------------------|--|----------|--|-----------|-------|----------------------|----------------|--|------|------|----------------|
| | | | Water g | Protein g | Fat g | Total carbohydrate g | Cholesterol mg | SFA | MUFA | PUFA | Not identified |
| <i>Cereal products</i> | | | | | | | | | | | |
| 010098 | biscotti farciti A | 697 | 0.4 | 4.9 | 25.3 | 69.4 | — ² | 86.3 | 5.5 | 5.0 | 3.2 |
| 010098 | biscotti farciti B | 698 | 1.2 | 7.1 | 23.2 | 68.5 | 20 | 57.7 | 28.6 | 16.5 | — |
| 010098 | biscotti farciti C | 699 | 0.8 | 4.7 | 24.3 | 70.2 | — | 71.8 | 20.5 | 7.2 | 0.5 |
| 010098 | biscotti farciti D | 700 | 1.6 | 5.3 | 26.9 | 66.2 | — | 49.7 | 36.6 | 9.2 | 4.5 |
| 010099 | pane biscotti | 696 | 7.7 | 10.5 | 2.4 | 79.4 | — | 26.3 | 14.1 | 54.8 | 4.8 |
| 012980 | tea pastry, short pastry, chocolate coated | 719 | 4.5 | 6.1 | 30.0 | 59.4 | 46 | 61.3 | 28.5 | 9.3 | 0.9 |
| 012981 | tea pastry, short pastry | 716 | 4.9 | 6.4 | 25.2 | 63.5 | 54 | 45.8 | 36.1 | 13.6 | 4.5 |
| 012982 | tea pastry, amaretti | 717 | 3.6 | 8.9 | 22.6 | 68.5 | 18 | 17.8 | 66.8 | 14.3 | 1.1 |
| 012991 | colomba-panettone | 718 | 15.9 | 6.5 | 16.7 | 60.9 | 76 | 48.2 | 39.4 | 10.5 | 1.9 |
| 012993 | sfogliatella | 694 | 30.5 | 7.9 | 8.8 | 52.8 | 12 | 38.4 | 39.8 | 14.9 | 6.9 |
| 012994 | tartufi | 703 | 10.1 | 6.2 | 27.3 | 56.4 | 42 | 57.4 | 33.7 | 7.8 | 1.1 |
| 012995 | diplomatici | 693 | 30.7 | 5.2 | 20.4 | 43.7 | 89 | 46.9 | 43.0 | 10.6 | — |
| 012996 | deliziosa | 695 | 12.8 | 6.6 | 21.8 | 58.8 | 26 | 43.0 | 42.1 | 11.3 | 3.6 |
| 012997 | pesca | 715 | 46.4 | 4.5 | 12.2 | 36.9 | 72 | 47.5 | 40.9 | 11.0 | 0.7 |
| <i>Sauces</i> | | | | | | | | | | | |
| 013998 | gran ragu | 692 | 72.0 | 5.9 | 13.3 | 8.6 | 16 | 19.3 | 42.2 | 37.6 | 0.9 |
| <i>Meat</i> | | | | | | | | | | | |
| 011149 | salsiccia fresca | 689 | 41.2 | 19.1 | 35.5 | — | 94 | 43.2 | 46.4 | 10.3 | 0.1 |
| 011150 | salsiccia secca | 688 | 16.1 | 33.8 | 55.5 | — | 150 | 40.2 | 49.0 | 9.4 | 1.4 |
| 011155 | mortadella suino | 686 | 45.8 | 13.3 | 38.9 | — | 91 | 39.5 | 49.9 | 9.5 | 1.1 |
| 011198 | salame napoletano | 723 | 17.2 | 23.6 | 47.1 | — | 122 | 37.3 | 50.9 | 10.9 | 0.9 |
| 011199 | soppressata | 687 | 29.6 | 28.8 | 31.3 | — | 116 | 38.3 | 51.8 | 8.8 | 1.1 |
| 012992 | sanguinaccio | 691 | 52.7 | 8.8 | 8.6 | 29.9 | 43 | 57.2 | 36.1 | 6.1 | 0.6 |
| <i>Dairy products</i> | | | | | | | | | | | |
| 011600 | latte di capra | 709 | 87.2 | 3.3 | 4.5 | 5.0 | 20 | 67.5 | 26.6 | 2.6 | 3.3 |
| 011793 | ricotta fresh cheese, cow's milk | 725 | 72.6 | 7.8 | 13.9 | 5.7 | 57 | 64.0 | 28.6 | 3.3 | 4.1 |
| 011794 | mozzarella | 722 | 61.5 | 22.4 | 13.3 | 2.8 | 46 | 65.0 | 27.7 | 3.3 | 4.0 |
| 011795 | ricotta fresh cheese, goat's milk | 724 | 53.7 | 13.3 | 29.8 | 3.2 | 107 | 68.0 | 24.6 | 4.3 | 3.1 |
| 011796 | mozzarella bufala | 685 | 62.7 | 15.7 | 18.3 | 3.3 | 56 | 66.3 | 26.9 | 3.4 | 3.4 |
| 011797 | formaggio di capra fresco | 684 | 32.1 | 23.4 | 30.7 | 13.8 | 122 | 70.5 | 23.0 | 3.2 | 3.3 |
| 011798 | formaggio di capra stagionato | 704 | 17.5 | 32.2 | 31.0 | 19.3 | 163 | 67.2 | 25.7 | 4.1 | 3.0 |
| 012986 | zuppa inglese | 721 | 25.7 | 4.8 | 11.6 | 57.9 | 49 | 40.7 | 41.8 | 10.9 | 6.6 |
| 012990 | ice cream mix, cream base | 727 | 46.8 | 3.5 | 18.1 | 31.6 | 8 | 58.7 | 32.1 | 9.0 | 0.2 |
| 012998 | gelati confezionati con biscotti | 683 | 39.8 | 5.1 | 9.5 | 45.6 | 18 | 63.0 | 26.2 | 8.2 | 2.6 |
| 012999 | gelati confezionati cornetti | 682 | 47.2 | 3.8 | 14.5 | 34.5 | 7 | 82.8 | 13.6 | 2.9 | 0.7 |
| 015099 | sofficieni, fried | 720 | 48.4 | 7.2 | 15.8 | 28.6 | 31 | 20.8 | 26.2 | 50.2 | 2.8 |
| <i>Oils and fats</i> | | | | | | | | | | | |
| 010901 | olive oil | 708 | — | — | 100 | — | — | 13.9 | 76.3 | 10.1 | — |
| <i>Miscellaneous</i> | | | | | | | | | | | |
| 010382 | patatine | 702 | 2.2 | 5.3 | 35.7 | 56.8 | — | 16.8 | 24.7 | 58.2 | 0.3 |
| 012987 | ice cream, locally prepared | 726 | 63.0 | 1.7 | 0.7 | 34.6 | — | — | — | — | — |

¹ Proportion of fatty acids calculated proportion of fatty acids methyl esters by weight. SFA, saturated fatty acids, MUFA, mono-saturated fatty acids; PUFA, poly-saturated fatty acids

² —, not measured or calculated

Table 4. Proximate composition, content of cholesterol and the proportion of fatty acids as saturated, mono-unsaturated and poly-unsaturated fatty acids of food samples from Finland

| Food table no. | Food | Lab code | Proximate composition, weight/100 g edible portion | | | | | Proportion of classes of fatty acids, g/100 g total fatty acids ¹ | | | |
|-----------------------|---------------------|----------|--|-----------|-------|----------------------|----------------|--|------|------|----------------|
| | | | Water g | Protein g | Fat g | Total carbohydrate g | Cholesterol mg | SFA | MUFA | PUFA | Not identified |
| <i>Meat</i> | | | | | | | | | | | |
| 663 | laurantai | 733 | 61.1 | 9.0 | 20.0 | 9.9 | 37 | 40.6 | 51.1 | 7.8 | 1.0 |
| 664 | hot dog | 740 | 53.9 | 10.2 | 20.1 | 15.8 | 48 | 42.8 | 48.6 | 8.6 | 0.8 |
| 665 | lenkki | 731 | 59.6 | 9.2 | 19.5 | 11.7 | 43 | 43.7 | 49.8 | 6.5 | 0.6 |
| 668 | dry sausage | 739 | 25.8 | 14.5 | 44.4 | 15.3 | 80 | 44.2 | 49.3 | 6.5 | 1.0 |
| 669 | maksamakara | 736 | 54.6 | 13.4 | 24.8 | 7.2 | 88 | 41.2 | 50.2 | 8.5 | 0.8 |
| 672 | cooked meat sausage | 730 | 65.1 | 10.9 | 13.7 | 10.3 | 40 | 41.2 | 51.6 | 7.2 | 1.2 |
| 675 | balkamin | 738 | 53.8 | 13.9 | 25.4 | 6.9 | 53 | 43.6 | 49.0 | 7.4 | 0.6 |
| <i>Dairy products</i> | | | | | | | | | | | |
| 524 | cheese, emmental | 734 | 35.9 | 29.7 | 28.6 | 5.8 | 84 | 64.2 | 29.7 | 3.4 | 2.8 |
| 525 | cheese, edam | 735 | 40.0 | 29.7 | 21.9 | 8.4 | 66 | 64.3 | 30.0 | 3.6 | 2.1 |
| 540 | ice cream | 737 | 63.5 | 4.7 | 14.7 | 17.1 | 44 | 65.0 | 25.1 | 4.3 | 5.6 |
| <i>Oils and fats</i> | | | | | | | | | | | |
| 404 | margarine | 732 | 16.1 | 0.4 | 83.5 | — ² | 10 | 22.5 | 36.4 | 41.4 | — |

¹ Proportion of fatty acids calculated in proportion of fatty acids methyl esters by weight. SFA, saturated fatty acids; MUFA, mono-unsaturated fatty acids; PUFA, polyunsaturated fatty acids

² —, not measured or calculated

Table 5. Fatty acid composition of food samples from Ghana

| Food table no. | Food | Lab code | Fatty acid composition, g/100 g total fatty acids ¹ | | | | | | | | | | |
|---------------------------------|-----------------------------------|----------|--|-----|-----|------|------------------|------|------|------|------|------|------|
| | | | 4:0 | 6:0 | 8:0 | 10:0 | 12:0 | 14:0 | 14:1 | 15:0 | 16:0 | 16:1 | 17:0 |
| <i>Cereal products</i> | | | | | | | | | | | | | |
| 35 | wheatbread | 560 | — ² | — | — | — | — | 0.4 | — | 0.1 | 20.6 | — | 0.1 |
| 37 | togbei ⁴ | 573 | — | — | 5.8 | 4.9 | 42.3 | 19.2 | — | — | 11.3 | — | — |
| 350 | biscuits | 582 | — | — | — | 0.9 | tr. ³ | 5.0 | — | 0.3 | 17.3 | 4.2 | 0.7 |
| <i>Starchy roots and fruits</i> | | | | | | | | | | | | | |
| 44 | cassava balls, fried | 588 | — | — | 5.5 | 4.9 | 44.4 | 20.2 | — | — | 10.4 | — | — |
| 71 | yam ⁴ | 577 | — | — | 3.0 | 3.0 | 28.5 | 13.3 | — | — | 13.8 | 2.3 | — |
| 330 | plantain, ripe ⁵ | 574 | — | — | — | 2.8 | 43.7 | 15.5 | — | — | 11.1 | — | — |
| 331 | plantain, ripe ⁴ | 576 | — | — | 7.6 | 5.8 | 46.0 | 18.6 | — | — | 9.7 | — | — |
| 335 | cocoyam, porridge | 579 | — | — | — | 0.3 | 3.7 | 2.6 | — | — | 42.0 | 0.1 | — |
| 454 | cocoyam ⁵ | 574 | — | — | — | 5.9 | 45.3 | 16.0 | — | — | 10.2 | — | — |
| 559 | plantain balls, ripe ⁴ | 611 | — | — | 5.1 | 3.9 | 31.1 | 12.4 | — | — | 19.5 | — | — |
| <i>Legumes</i> | | | | | | | | | | | | | |
| 336 | beans ⁶ | 580 | — | — | — | — | 0.8 | 1.0 | — | — | 39.6 | 0.1 | — |
| <i>Nuts and seeds</i> | | | | | | | | | | | | | |
| 88 | groundnuts, roasted | 578 | — | — | — | — | 0.1 | — | — | — | 12.2 | — | — |
| 102 | coconut flesh | 590 | — | — | 4.5 | 3.5 | 37.3 | 21.0 | — | — | 13.1 | — | — |
| <i>Soups</i> | | | | | | | | | | | | | |
| 167 | groundnut soup | 594 | — | — | — | — | 0.5 | 0.6 | — | — | 13.9 | 0.3 | — |
| 170 | okro soup | 597 | — | — | — | — | 0.1 | 2.8 | 0.8 | 0.3 | 26.2 | 3.5 | 2.1 |
| 173 | palm soup | 550 | — | — | — | — | tr. | 1.2 | — | — | 43.6 | 1.0 | — |
| 570 | okro soup ⁶ | 615 | — | — | — | — | 0.2 | 1.3 | — | 0.1 | 41.5 | — | 0.4 |
| <i>Stews</i> | | | | | | | | | | | | | |
| 164 | agushie stew | 592 | — | — | — | — | tr. | 0.7 | — | — | 34.8 | 0.1 | — |
| 165 | bean stew | 593 | — | — | — | — | tr. | 0.9 | — | — | 40.5 | 0.1 | — |
| 169 | nkontomire stew | 596 | — | — | — | — | 0.2 | 1.1 | — | — | 42.4 | — | — |
| 171 | okro and garden egg stew | 598 | — | — | — | — | 0.1 | 1.2 | — | — | 39.2 | — | — |
| 335 | pie | 608 | — | — | 0.4 | 0.4 | 3.4 | 2.1 | — | — | 27.8 | — | — |
| 339 | rice and stew | 549 | — | — | 5.0 | 4.6 | 40.7 | 16.9 | — | — | 10.9 | 0.4 | — |
| 340 | rice and beans | 581 | — | — | 2.4 | 2.7 | 41.0 | 15.3 | — | — | 10.3 | 0.1 | — |
| 572 | garden egg stew | 616 | — | — | — | — | 0.2 | 1.4 | — | — | 40.2 | 0.7 | — |
| <i>Sauces</i> | | | | | | | | | | | | | |
| 172 | palaver sauce | 599 | — | — | — | — | — | 1.0 | — | — | 39.0 | — | — |
| 566 | gravy ⁴ | 612 | — | — | 7.8 | 5.9 | 49.8 | 18.0 | — | — | 8.0 | — | — |
| 567 | gravy ⁵ | 613 | — | — | 4.8 | 4.3 | 49.0 | 15.9 | — | — | 8.6 | — | — |
| 568 | gravy ⁶ | 614 | — | — | — | — | 0.2 | 1.0 | — | — | 41.4 | — | — |
| <i>Meat and eggs</i> | | | | | | | | | | | | | |
| 197 | cowhide | 554 | — | — | — | — | 3.2 | 4.3 | 0.6 | 0.3 | 22.9 | 4.7 | 1.2 |
| 199 | snails | 542 | — | — | — | — | 1.0 | 1.9 | 0.8 | — | 15.9 | 2.7 | — |
| <i>Fish and shell-fish</i> | | | | | | | | | | | | | |
| 217 | anchovy, smoked | 544 | — | — | — | — | — | 4.8 | 1.4 | — | 24.5 | 2.9 | — |
| 218 | anchovy, sun-dried | 545 | — | — | — | — | — | 4.7 | 1.0 | — | 24.2 | 3.4 | — |
| 226 | kako | 600 | — | — | 0.2 | 0.2 | 2.6 | 4.5 | 0.2 | 0.7 | 25.1 | 5.4 | 1.6 |
| 228 | crab | 601 | — | — | 0.1 | 0.1 | 1.3 | 2.1 | 0.2 | — | 16.1 | 3.7 | — |
| 233 | mackerel, smoked | 551 | — | — | — | — | 0.4 | 4.8 | 0.5 | — | 19.3 | 6.8 | — |
| 239 | mackerel, tomatoes | 552 | — | — | — | — | tr. | 4.5 | 0.5 | — | 13.7 | 4.9 | — |
| 249 | sardines, smoked | 543 | — | — | — | — | — | 4.6 | 1.2 | — | 24.8 | 2.8 | — |
| 250 | sardines, fried ⁴ | 603 | — | — | 4.0 | 3.4 | 46.5 | 15.3 | 0.1 | — | 9.5 | 0.2 | — |
| 260 | sardines, canned | 553 | — | — | — | — | tr. | 1.0 | tr. | — | 11.2 | 1.6 | — |
| 262 | seabream, smoked | 546 | — | — | — | — | 7.1 | 4.4 | 0.8 | — | 18.2 | 2.1 | — |
| 270 | triggerfish | 604 | — | — | 0.5 | 0.5 | 5.2 | 2.6 | tr. | — | 20.3 | 3.6 | 2.8 |
| 272 | tuna, smoked | 547 | — | — | — | — | 4.3 | 3.7 | 1.1 | — | 28.4 | 3.3 | — |
| 282 | tilapia, salted | 605 | — | — | — | — | 1.0 | 6.5 | 1.6 | 1.6 | 30.1 | 14.2 | 3.9 |
| 341 | herring, smoked | 541 | — | — | — | — | 0.3 | 4.3 | 0.9 | — | 30.4 | 3.4 | — |
| 679 | tilapia ⁵ | 617 | — | — | 3.3 | 3.0 | 41.8 | 15.2 | 0.2 | — | 10.5 | 1.3 | — |
| 683 | tilapia ⁴ | 548 | — | — | 3.0 | 3.0 | 33.4 | 16.1 | 0.7 | — | 12.4 | 2.7 | — |
| 684 | fishmix, smoked | 618 | — | — | — | 0.1 | 0.6 | 2.0 | 0.5 | 0.6 | 22.0 | 3.7 | 1.9 |
| 6175 | fishmix, fried | 620 | — | — | 4.4 | 3.6 | 41.1 | 15.5 | 0.1 | — | 10.0 | 0.3 | — |
| <i>Dairy products</i> | | | | | | | | | | | | | |
| 240 | milk, 'Nestlé' | 602 | 3.5 | 1.4 | 1.0 | 2.8 | 3.9 | 10.5 | 2.1 | — | 27.6 | 3.8 | — |
| <i>Oils and fats</i> | | | | | | | | | | | | | |
| 308 | coconut oil | 583 | — | — | 5.6 | 4.7 | 40.8 | 17.1 | — | — | 8.9 | — | — |
| 311 | palm oil | 584 | — | — | — | — | 0.2 | 0.8 | — | — | 41.1 | — | — |
| 711 | palm kernel oil | 585 | — | — | 3.7 | 3.6 | 46.2 | 16.7 | — | — | 10.2 | — | — |
| 712 | margarine | 619 | — | — | tr. | tr. | 0.2 | 3.7 | 0.3 | 0.3 | 26.2 | 4.4 | 0.7 |

¹ Proportion of fatty acids calculated as proportion of fatty acid methyl esters by weight² —, < 0.1³ tr., trace⁴ Prepared using coconut oil⁵ Prepared using palm kernel oil⁶ Prepared using palm oil

Table 5, continued

| Food table no. | Fatty acid composition, g/100 g total fatty acids ¹ | | | | | | | | | | | | | | | | | | |
|----------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | 18:0 | 18:1 | 18:2 | 18:3 | 18:4 | 20:0 | 20:1 | 20:2 | 20:3 | 20:4 | 20:5 | 22:0 | 22:1 | 22:4 | 22:5 | 22:6 | 24:0 | 24:1 | other |
| 35 | 2.4 | 15.9 | 53.5 | 4.1 | — | — | 0.3 | — | — | — | — | 0.2 | — | — | — | — | 1.3 | 0.6 | 0.4 |
| 37 | 3.2 | 8.2 | 4.3 | — | — | 0.1 | 0.1 | — | — | — | — | — | — | — | — | — | — | — | 0.5 |
| 350 | 5.0 | 14.1 | 11.1 | 0.7 | — | 3.5 | 11.3 | 0.6 | 0.2 | — | — | 3.5 | 13.2 | — | — | — | 0.3 | 0.9 | 7.2 |
| 44 | 3.1 | 8.7 | 2.3 | 0.2 | — | tr. | tr. | — | — | — | — | tr. | — | — | — | — | — | — | 0.1 |
| 71 | 4.2 | 17.8 | 12.6 | 0.6 | — | 0.2 | 0.2 | — | — | — | — | 0.1 | — | — | — | — | — | — | 0.4 |
| 330 | 2.9 | 16.5 | 4.3 | 1.4 | — | 0.3 | 0.2 | — | — | — | — | 0.1 | — | — | — | — | — | — | 1.3 |
| 331 | 3.0 | 6.5 | 2.0 | 0.5 | — | 0.1 | tr. | — | — | — | — | tr. | — | — | — | — | — | — | 0.1 |
| 335 | 5.1 | 35.2 | 9.4 | 0.5 | — | 0.6 | tr. | — | — | — | — | 0.2 | — | — | — | — | — | — | 0.3 |
| 454 | 2.8 | 17.0 | 3.6 | — | — | 0.2 | 0.3 | — | — | — | — | — | — | — | — | — | — | — | 1.7 |
| 559 | 3.3 | 19.1 | 5.2 | 0.3 | — | 0.1 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 336 | 6.0 | 37.2 | 11.9 | 2.0 | — | 0.6 | 0.1 | — | — | — | — | — | — | — | — | — | — | — | 0.6 |
| 88 | 4.7 | 48.0 | 26.5 | — | — | 1.9 | 0.9 | — | — | — | — | 3.6 | — | — | — | — | 1.6 | — | 0.4 |
| 102 | 1.7 | 13.4 | 5.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.1 |
| 167 | 6.0 | 45.5 | 24.2 | 0.4 | — | 1.7 | 1.0 | — | — | — | — | 3.0 | 0.3 | — | — | — | 1.2 | — | 1.4 |
| 170 | 25.1 | 27.0 | 4.2 | 0.3 | — | 0.7 | 0.4 | — | — | — | — | 1.0 | — | — | — | — | 0.1 | 2.4 | 3.2 |
| 173 | 5.3 | 37.8 | 9.4 | 0.4 | — | 0.4 | 0.2 | — | — | — | — | — | — | — | — | — | — | — | 0.7 |
| 570 | 5.4 | 40.1 | 10.1 | 0.3 | — | 0.4 | 0.1 | — | — | — | — | 0.1 | — | — | — | — | — | 0.1 | — |
| 164 | 7.4 | 31.2 | 24.4 | 0.4 | — | 0.5 | 0.1 | — | — | — | — | 0.1 | — | — | — | — | — | — | 0.2 |
| 165 | 5.5 | 38.7 | 12.2 | 0.9 | — | 0.6 | 0.3 | — | — | — | — | 0.2 | — | — | — | — | — | — | — |
| 169 | 5.5 | 37.2 | 12.2 | 0.8 | — | 0.5 | 0.1 | — | — | — | — | 0.1 | — | — | — | — | — | — | — |
| 171 | 6.0 | 36.7 | 12.6 | 0.8 | — | 0.8 | 0.5 | — | — | — | — | 0.3 | 0.4 | — | — | — | 0.1 | 0.8 | 0.5 |
| 335 | 4.4 | 29.3 | 27.6 | 2.9 | — | 0.3 | 0.4 | — | — | — | — | 0.5 | 0.5 | — | — | — | — | — | — |
| 339 | 2.9 | 10.7 | 6.1 | 0.3 | — | 0.1 | 0.6 | — | — | — | — | — | — | — | — | — | — | — | 0.8 |
| 340 | 2.8 | 18.9 | 5.5 | 0.4 | — | 0.2 | 0.2 | — | — | — | — | 0.1 | — | — | — | — | — | — | 0.1 |
| 572 | 6.0 | 35.6 | 11.4 | 0.5 | — | 0.7 | 0.4 | — | — | — | — | 0.2 | 0.2 | — | — | — | — | — | 2.5 |
| 172 | 6.6 | 35.0 | 16.8 | 0.6 | — | 0.6 | 0.2 | — | — | — | — | — | — | — | — | — | — | — | 0.2 |
| 566 | 2.3 | 6.6 | 1.7 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 567 | 2.6 | 12.4 | 2.4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 568 | 5.2 | 38.6 | 12.8 | 0.3 | — | 0.4 | — | — | — | — | — | — | — | — | — | — | — | — | 0.2 |
| 197 | 15.2 | 36.7 | 2.7 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 8.2 |
| 199 | 8.8 | 33.9 | 14.1 | 1.6 | 0.3 | 0.2 | 1.9 | 1.5 | 0.3 | 3.0 | 0.7 | — | — | — | — | — | — | — | 11.3 |
| 217 | 7.6 | 13.0 | 3.4 | 1.0 | 0.9 | 0.2 | 0.4 | 0.2 | 0.3 | 2.5 | 6.3 | — | — | 0.7 | 0.6 | 22.5 | — | — | 6.8 |
| 218 | 10.0 | 13.3 | 11.0 | 0.6 | 0.7 | 0.3 | 0.5 | 0.2 | 0.5 | 1.4 | 4.6 | — | — | 0.8 | 0.5 | 16.6 | — | — | 5.8 |
| 226 | 12.1 | 16.4 | 2.2 | 0.4 | — | 0.6 | 1.9 | 0.3 | 3.2 | — | — | 0.4 | 4.1 | — | 2.0 | 10.7 | — | — | 8.1 |
| 228 | 8.4 | 24.0 | 11.3 | 1.9 | 0.5 | — | 0.3 | 0.5 | — | 9.5 | 7.1 | — | — | 0.3 | — | 2.1 | — | — | 10.2 |
| 233 | 5.2 | 22.9 | 2.3 | 1.2 | 1.8 | 0.5 | 5.7 | 0.5 | 0.2 | 1.1 | 5.5 | — | 8.4 | 2.1 | 1.4 | 8.3 | — | — | 1.3 |
| 239 | 3.5 | 18.2 | 2.3 | 1.0 | 3.1 | 0.5 | 11.0 | 0.3 | 0.1 | 0.6 | 8.2 | — | 11.9 | 1.8 | 1.5 | 10.5 | — | — | 2.1 |
| 249 | 9.8 | 13.1 | 4.7 | 1.1 | 0.8 | 0.3 | 0.5 | 0.3 | 0.5 | 1.9 | 5.3 | — | — | 1.1 | 0.7 | 20.9 | — | — | 5.4 |
| 250 | 2.4 | 13.5 | 2.2 | — | — | — | — | — | — | 0.2 | 0.3 | — | — | 0.1 | tr. | 1.3 | — | — | 0.9 |
| 260 | 4.0 | 32.0 | 32.7 | 5.9 | 0.3 | 0.5 | 1.6 | 0.1 | 0.5 | 0.1 | 2.3 | — | 4.0 | 0.4 | 0.2 | 1.3 | — | — | 0.3 |
| 262 | 8.5 | 10.9 | 1.6 | 0.5 | 0.2 | 0.3 | 0.9 | 0.4 | 0.5 | 4.5 | 4.5 | — | — | 1.3 | 1.8 | 25.2 | — | — | 5.8 |
| 270 | 13.1 | 16.0 | 1.6 | — | 0.4 | 0.4 | 1.0 | 0.3 | — | 3.8 | 2.4 | 0.1 | — | 0.7 | 0.8 | 10.7 | — | — | 13.5 |
| 272 | 14.4 | 22.5 | 3.6 | 0.2 | 0.2 | 0.5 | 1.4 | 0.6 | 0.6 | 1.6 | 1.4 | — | 1.1 | 0.8 | — | 5.8 | — | — | — |
| 282 | 7.0 | 14.4 | 4.8 | 2.7 | — | 0.4 | 0.6 | 0.4 | 2.5 | — | — | — | 1.2 | 0.3 | 0.8 | 1.5 | — | — | 4.5 |
| 341 | 9.8 | 17.9 | 3.0 | 1.3 | 0.9 | 1.0 | 2.5 | 0.4 | 0.8 | 1.1 | 4.0 | — | 1.1 | — | — | 15.4 | — | — | 1.6 |
| 679 | 3.3 | 16.0 | 2.6 | 0.3 | — | 0.2 | 0.1 | — | 0.8 | 0.4 | 0.2 | — | — | — | 0.3 | 0.5 | — | — | — |
| 683 | 4.1 | 18.1 | 3.0 | 0.3 | 0.1 | 0.1 | 0.2 | — | tr. | 0.5 | 0.5 | — | — | 0.1 | 0.7 | 0.7 | — | — | — |
| 684 | 9.5 | 17.9 | 3.0 | 1.0 | — | 1.1 | — | 0.4 | 2.9 | 4.0 | 3.7 | 0.6 | 3.2 | — | 1.0 | 19.9 | — | — | 0.4 |
| 6175 | 3.6 | 14.4 | 2.6 | tr. | — | 0.2 | 0.2 | — | 0.2 | 0.2 | 0.3 | — | 0.4 | — | — | 1.3 | — | — | 1.1 |
| 240 | 9.3 | 26.0 | 3.0 | 0.5 | — | 0.8 | 0.2 | — | — | — | — | — | — | — | — | — | — | — | 2.9 |
| 308 | 2.7 | 12.4 | 7.3 | 0.2 | — | 0.1 | 0.1 | — | — | — | — | — | — | — | — | — | — | — | 0.1 |
| 311 | 6.8 | 40.1 | 9.7 | 0.3 | — | 0.4 | 0.2 | — | — | — | — | — | — | — | — | — | — | — | 0.3 |
| 711 | 3.0 | 14.8 | 3.6 | tr. | — | 0.1 | 0.2 | — | — | — | — | — | — | — | — | — | — | — | — |
| 712 | 6.3 | 26.2 | 6.1 | 0.4 | — | 1.9 | 6.9 | — | — | — | — | 1.7 | 6.9 | — | — | — | — | — | 7.8 |

Table 6. Fatty acid composition of food samples from The Philippines

| Food table no. | Food | Lab code | Fatty acid composition, g/100 g total fatty acids ¹ | | | | | | | | | | |
|--------------------------------|--|----------|--|-----|-----|------|------|------|------------------|------|------|------|------|
| | | | 4:0 | 6:0 | 8:0 | 10:0 | 12:0 | 14:0 | 14:1 | 15:0 | 16:0 | 16:1 | 17:0 |
| <i>Cereal products</i> | | | | | | | | | | | | | |
| 31 | mike, luto | 755 | — ² | 0.8 | 6.9 | 4.2 | 30.2 | 11.7 | — | — | 12.0 | 0.3 | 0.2 |
| 967 | mamon | 742 | — | 0.6 | 6.8 | 5.0 | 36.0 | 14.9 | — | — | 13.3 | 0.2 | — |
| 972 | american loaf | 743 | — | 0.6 | 5.1 | 3.6 | 26.2 | 10.6 | — | — | 15.9 | 0.4 | — |
| 978 | pan de sal (bread) | 744 | — | 0.8 | 5.8 | 3.9 | 27.8 | 11.3 | — | — | 15.3 | — | — |
| 1351 | biscuit marie | 781 | — | 0.5 | 4.6 | 3.4 | 30.4 | 14.6 | 0.1 | — | 14.9 | 0.3 | 0.2 |
| 1703 | biscuit favorita | | | | | | | | | | | | |
| 1704 | rice krupek | 782 | — | 1.1 | 8.0 | 5.6 | 42.9 | 18.4 | — | — | 10.5 | — | — |
| 1710 | fried corn grits | 784 | — | 0.5 | 4.6 | 3.8 | 33.8 | 15.9 | — | — | 13.1 | — | — |
| <i>Nuts and seeds</i> | | | | | | | | | | | | | |
| 333 | coconut milk | 763 | — | 0.8 | 6.6 | 5.0 | 44.5 | 20.1 | — | — | 10.9 | — | — |
| 1015 | peanut butter | 780 | — | — | 0.6 | 0.4 | 3.4 | 1.5 | — | — | 14.5 | — | 0.1 |
| 1712 | fried peanuts ⁴ | 785 | — | 0.2 | 0.3 | 0.8 | 5.8 | 2.2 | — | — | 12.5 | — | 0.1 |
| <i>Soups, stews and sauces</i> | | | | | | | | | | | | | |
| 1068 | dinunguan | 751 | — | 0.1 | 0.5 | 0.5 | 6.6 | 10.6 | 0.9 | 0.4 | 24.8 | 5.1 | 0.8 |
| 1587 | bopiz | 779 | — | 2.6 | 6.0 | 3.5 | 25.1 | 10.6 | 0.2 | 0.2 | 12.9 | 1.2 | 0.3 |
| 1701 | beef mami | 753 | — | — | 1.3 | 0.9 | 6.9 | 5.4 | 0.9 | 0.7 | 18.8 | 4.0 | 1.7 |
| 1705 | mungbean sotanghon | 752 | — | 0.6 | 6.9 | 5.0 | 36.0 | 14.8 | — | — | 13.3 | 0.4 | 0.1 |
| <i>Meat and eggs</i> | | | | | | | | | | | | | |
| 595 | beef, lean prepared ⁴ | 761 | — | — | 2.6 | 1.8 | 17.3 | 10.9 | 0.4 | 0.3 | 19.9 | 3.5 | 1.0 |
| 664 | chicken, lean meat prepared ⁴ | 774 | — | 0.6 | 3.8 | 2.8 | 21.2 | 9.3 | 0.3 | 0.1 | 17.4 | 3.7 | 0.2 |
| 1089 | cured pork meat, raw | 749 | — | — | tr. | 0.2 | 2.9 | 7.1 | 0.3 | 0.2 | 24.5 | 4.1 | 0.4 |
| 1102 | hot dogs, unprepared | 746 | — | — | — | tr. | 0.6 | 1.9 | 0.2 | 0.1 | 20.7 | 3.0 | 0.7 |
| 1165 | balut | 762 | — | — | — | — | 0.5 | 0.9 | 0.1 | 0.1 | 27.0 | 4.1 | 0.3 |
| 1816 | chicken wings, prepared ⁴ | 773 | — | — | 3.8 | 2.7 | 20.7 | 8.7 | 0.4 | 0.1 | 17.4 | 4.6 | 0.2 |
| 1817 | hot dogs, prepared ⁴ | 745 | — | — | 0.4 | 0.3 | 2.9 | 3.6 | 0.3 | 0.2 | 22.7 | 3.3 | 1.0 |
| 1818 | longanisa, prepared ⁴ | 770 | — | — | 0.3 | 0.3 | 4.9 | 9.5 | 0.3 | 0.1 | 24.9 | 4.1 | 0.4 |
| 1819 | cured pork meat, prepared ⁴ | 960 | — | — | 1.9 | 1.4 | 12.0 | 10.2 | 0.3 | 0.1 | 20.7 | 3.1 | 0.3 |
| 1820 | pork, lean meat prepared ⁴ | 771 | — | — | 0.4 | 0.5 | 8.2 | 13.8 | 0.4 | 0.1 | 25.7 | 4.2 | 0.2 |
| 1821 | pork, medium fat prepared ⁴ | 772 | — | — | 0.3 | 0.4 | 7.0 | 12.3 | 0.7 | 0.1 | 24.1 | 5.2 | 0.3 |
| <i>Fish</i> | | | | | | | | | | | | | |
| 749 | fish, fat raw (Bangus) | 747 | — | — | tr. | 0.4 | 0.5 | 1.7 | 0.4 | 0.9 | 37.5 | 9.7 | 1.8 |
| 1226 | ayungin, dried | 759 | — | — | 0.2 | 0.1 | 2.1 | 7.5 | 1.0 | 0.3 | 26.0 | 15.0 | 2.0 |
| 1810 | fish, fat prepared (Bangus) ⁴ | 748 | — | 0.3 | 3.1 | 2.1 | 16.8 | 9.9 | 0.5 | 0.4 | 24.3 | 7.4 | 1.3 |
| 1811 | tunsoy, dried prepared ⁴ | 768 | — | 1.4 | 7.4 | 4.7 | 34.1 | 15.6 | 0.1 | 0.2 | 15.9 | 2.4 | 0.7 |
| 1812 | tamban, dried prepared ⁴ | 769 | — | 0.6 | 5.6 | 4.0 | 29.5 | 13.9 | 0.2 | 0.4 | 18.0 | 3.4 | 1.1 |
| 1814 | tamban, smoked prepared ⁴ | 767 | — | 0.5 | 3.9 | 2.8 | 24.0 | 13.1 | 0.3 | 0.6 | 20.3 | 4.0 | 1.6 |
| 1830 | fish, lean raw | 775 | — | — | 0.3 | 0.3 | 0.9 | 4.6 | 0.2 | 0.3 | 27.8 | 7.4 | 2.4 |
| 1831 | fish, lean prepared ⁴ | 776 | — | — | 5.7 | 4.6 | 38.9 | 17.0 | tr. ³ | tr. | 12.0 | 1.2 | 1.0 |
| 1832 | fish, medium fat raw | 777 | — | — | — | 0.2 | 1.4 | 7.0 | 0.8 | 0.2 | 31.0 | 11.8 | 1.5 |
| 1833 | fish, medium fat prepared ⁴ | 778 | — | — | 5.9 | 4.8 | 39.1 | 17.0 | 0.1 | tr. | 13.1 | 1.7 | 0.5 |
| <i>Dairy products</i> | | | | | | | | | | | | | |
| 1153 | evaporated filled milk | 786 | 0.3 | 1.3 | 8.5 | 5.6 | 39.8 | 15.6 | 0.1 | — | 10.0 | 0.2 | tr. |
| 1155 | condensed sweetened filled milk | 783 | — | 0.9 | 8.0 | 5.6 | 39.8 | 16.1 | — | — | 10.2 | 0.2 | tr. |
| <i>Oils and fats</i> | | | | | | | | | | | | | |
| 1302 | margarine | 757 | — | 0.8 | 6.8 | 4.2 | 33.4 | 14.8 | — | — | 15.2 | — | 0.3 |
| 1711 | margarine-dairy cream | 756 | — | 0.4 | 4.4 | 3.8 | 30.3 | 11.0 | — | — | 22.4 | 0.4 | 0.1 |
| <i>Miscellaneous</i> | | | | | | | | | | | | | |
| 1029 | turon | 741 | — | 0.8 | 6.5 | 4.7 | 40.4 | 18.9 | — | — | 11.7 | — | — |
| 1708 | halo-halo | 750 | — | 1.0 | 7.0 | 4.1 | 29.8 | 12.6 | — | — | 13.0 | 1.2 | 0.4 |

¹ Proportion of fatty acids calculated as proportion of fatty acid methyl esters by weight² —, < 0.1³ tr., trace⁴ prepared using coconut oil

Table 6, continued

| Food table no. | Fatty acids composition, g/100 g total fatty acids ¹ | | | | | | | | | | | | | | | | | | |
|----------------|---|------|------|------|------|------|------------------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | 18:0 | 18:1 | 18:2 | 18:3 | 18:4 | 20:0 | 20:1 | 20:2 | 20:3 | 20:4 | 20:5 | 22:0 | 22:1 | 22:4 | 22:5 | 22:6 | 24:0 | 24:1 | other |
| 31 | 2.3 | 9.5 | 19.6 | 1.1 | — | 0.1 | 0.4 | — | — | — | — | 0.2 | — | — | — | — | — | — | 0.5 |
| 967 | 7.8 | 6.5 | 4.5 | 0.2 | — | 0.1 | tr. ³ | — | — | — | — | tr. | — | — | — | — | 1.0 | 1.7 | 1.2 |
| 972 | 6.4 | 9.1 | 14.1 | 0.6 | — | — | 0.2 | — | — | — | — | 0.2 | — | — | — | — | 0.2 | 1.8 | 4.9 |
| 978 | 5.1 | 8.4 | 15.4 | 0.6 | — | — | — | — | — | — | — | 0.2 | — | — | — | — | 0.3 | 2.1 | 3.0 |
| 1351 | 4.8 | 9.7 | 10.4 | 0.6 | — | 0.2 | 0.2 | — | — | — | — | 0.1 | — | — | — | — | 1.7 | 1.6 | 1.8 |
| 1703 | 2.9 | 7.0 | 3.4 | 0.1 | — | tr. | tr. | — | — | — | — | tr. | — | — | — | — | — | — | — |
| 1704 | 3.8 | 12.4 | 8.7 | 0.2 | — | 0.4 | 0.2 | — | — | — | — | tr. | — | — | — | — | — | — | 2.7 |
| 333 | 3.4 | 7.4 | 1.2 | — | — | tr. | tr. | — | — | — | — | — | — | — | — | — | — | — | 0.1 |
| 1015 | 5.8 | 36.4 | 29.8 | 0.1 | — | 1.8 | 0.8 | — | — | — | — | 3.4 | — | — | — | — | 1.3 | — | 0.4 |
| 1712 | 3.6 | 35.4 | 31.4 | — | — | 1.4 | 0.8 | — | — | — | — | 3.2 | — | — | — | — | 1.2 | — | 1.0 |
| 1068 | 11.2 | 31.1 | 4.0 | 0.3 | — | 0.3 | 0.6 | 0.6 | — | — | — | 0.2 | 0.2 | — | — | — | — | — | 1.3 |
| 1587 | 5.8 | 20.8 | 7.8 | 0.3 | — | 0.2 | 0.5 | 0.2 | 0.2 | — | — | 0.1 | 0.2 | — | — | — | — | — | 1.2 |
| 1701 | 18.4 | 31.1 | 4.8 | 0.9 | — | 1.0 | 0.5 | 0.2 | 0.2 | — | — | 0.1 | 0.2 | — | — | — | 0.1 | 0.1 | 0.6 |
| 1705 | 3.7 | 7.9 | 7.2 | 2.4 | — | 0.2 | 0.1 | 0.3 | 0.1 | — | — | 0.3 | tr. | — | — | — | 0.2 | — | 0.4 |
| 595 | 9.8 | 24.0 | 6.5 | 0.5 | — | 0.2 | 0.3 | — | — | — | — | — | — | — | — | — | — | — | 1.2 |
| 664 | 5.3 | 23.0 | 10.6 | 0.6 | — | 0.1 | 0.2 | tr. | 0.1 | — | — | 0.3 | — | — | — | — | — | — | 0.3 |
| 1089 | 9.7 | 37.2 | 8.6 | 0.4 | — | 0.2 | 0.8 | 0.2 | 0.2 | — | — | 0.8 | — | — | — | — | — | — | 2.1 |
| 1102 | 14.6 | 42.4 | 9.2 | 0.9 | — | 0.6 | 1.4 | 0.5 | 0.4 | — | — | 0.5 | 0.4 | — | — | — | — | — | 2.0 |
| 1165 | 6.3 | 47.8 | 6.2 | 0.7 | — | 0.2 | 0.6 | 0.3 | 0.1 | — | — | — | — | — | — | — | — | — | 2.7 |
| 1816 | 4.6 | 24.2 | 10.6 | 0.5 | — | — | 0.3 | tr. | 0.3 | — | — | — | — | — | — | — | — | — | — |
| 1817 | 13.5 | 38.7 | 8.0 | 0.8 | — | 0.6 | 1.1 | 0.3 | 0.2 | — | — | 0.2 | 0.3 | — | — | — | — | — | 1.7 |
| 1818 | 8.7 | 34.8 | 9.5 | 0.4 | — | 0.2 | 0.8 | 0.3 | 0.2 | — | — | — | — | — | — | — | — | — | 0.4 |
| 1819 | 7.3 | 30.2 | 10.0 | 0.5 | — | 0.2 | 0.5 | 0.2 | 0.4 | — | — | — | — | — | — | — | — | — | 0.8 |
| 1820 | 8.0 | 30.0 | 6.8 | 0.3 | — | 0.1 | 0.5 | 0.1 | 0.1 | — | — | — | — | — | — | — | — | — | 0.3 |
| 1821 | 7.3 | 32.4 | 7.9 | 0.4 | — | 0.2 | 0.6 | 0.2 | — | — | — | — | — | — | — | — | — | — | 0.7 |
| 749 | 9.0 | 26.2 | 2.7 | 2.6 | 2.9 | — | 2.4 | 0.6 | 0.6 | 0.9 | 0.7 | — | — | 0.3 | 0.4 | 0.8 | — | — | — |
| 1226 | 12.0 | 14.6 | 3.1 | 0.1 | 0.8 | — | 0.5 | 0.1 | 0.6 | 2.9 | 1.7 | — | — | 1.0 | 1.2 | 1.0 | — | — | 4.9 |
| 1810 | 5.5 | 16.5 | 1.9 | 1.2 | 0.4 | — | 1.3 | 0.4 | 0.3 | 1.0 | 1.0 | — | — | 0.3 | 0.7 | 1.0 | — | — | 3.0 |
| 1811 | 4.5 | 10.2 | 1.8 | 0.1 | 0.2 | — | 0.3 | — | — | 0.4 | 0.9 | — | — | — | — | 1.8 | — | — | — |
| 1812 | 5.7 | 10.8 | 1.7 | 0.2 | 0.3 | — | 0.4 | 0.2 | 0.1 | 0.6 | 1.1 | — | — | 0.3 | 0.2 | 1.7 | — | — | 0.2 |
| 1814 | 6.1 | 11.0 | 1.7 | 0.6 | 0.5 | 0.5 | 0.4 | 0.1 | — | 0.8 | 3.2 | — | — | 0.6 | 0.2 | 4.4 | — | — | — |
| 1830 | 13.6 | 17.9 | 4.3 | 0.3 | 1.0 | — | 0.4 | 0.2 | 0.2 | 2.6 | 1.2 | — | — | 1.2 | 1.3 | 9.5 | — | — | 2.3 |
| 1831 | 4.5 | 10.0 | 1.8 | 0.2 | 0.4 | — | 0.1 | tr. | 0.5 | 0.2 | 0.5 | — | — | 0.4 | 0.2 | 1.4 | — | — | — |
| 1832 | 13.7 | 17.9 | 1.9 | 0.4 | 1.2 | — | 0.7 | 0.3 | 0.4 | 1.6 | 1.6 | — | — | 0.6 | 0.6 | 2.1 | — | — | 3.2 |
| 1833 | 4.2 | 8.5 | 1.4 | 0.2 | 0.1 | — | — | — | — | 0.5 | 0.8 | — | — | 0.1 | 0.2 | 1.1 | — | — | 0.6 |
| 1153 | 3.5 | 9.2 | 5.0 | 0.1 | — | 0.2 | — | — | — | — | — | — | — | — | — | — | — | — | 0.4 |
| 1155 | 3.1 | 9.7 | 5.8 | 0.1 | — | 0.2 | — | — | — | — | — | — | — | — | — | — | — | — | 0.1 |
| 1302 | 10.9 | 9.8 | 2.8 | — | — | 0.5 | — | — | — | — | — | — | — | — | — | — | — | — | 0.5 |
| 1711 | 4.1 | 19.1 | 3.7 | — | — | 0.1 | — | — | — | — | — | — | — | — | — | — | — | — | 0.3 |
| 1029 | 3.6 | 8.1 | 3.8 | 0.5 | — | — | — | — | — | — | — | 0.1 | — | — | — | — | — | — | 0.9 |
| 1708 | 4.8 | 14.4 | 7.6 | 1.3 | — | — | — | — | — | — | — | 0.6 | — | — | — | — | 0.5 | — | 2.2 |

Table 7. Fatty acid composition of food samples from Italy

| Food table no. | Food | Lab code | Fatty acid composition, g/100 g total fatty acids ¹ | | | | | | | | | | |
|------------------------|--|----------|--|-----|-----|------|------|------|------|------|------|------------------|------|
| | | | 4:0 | 6:0 | 8:0 | 10:0 | 12:0 | 14:0 | 14:1 | 15:0 | 16:0 | 16:1 | 17:0 |
| <i>Cereal products</i> | | | | | | | | | | | | | |
| 010098 | biscotti farciti A | 697 | — ² | — | 4.7 | 4.2 | 35.7 | 15.5 | — | — | 11.5 | tr. ³ | — |
| 010098 | biscotti farciti B | 698 | — | — | 1.9 | 1.4 | 11.5 | 6.1 | 0.2 | — | 25.2 | 1.1 | — |
| 010098 | biscotti farciti C | 699 | — | — | 1.2 | 1.2 | 21.5 | 9.6 | — | — | 26.3 | tr. | — |
| 010098 | biscotti farciti D | 700 | — | — | 0.4 | 0.3 | 3.2 | 2.2 | — | — | 35.5 | 0.3 | — |
| 010099 | pane biscotti | 696 | — | — | 0.1 | tr. | 0.4 | 0.9 | — | — | 23.2 | 0.6 | — |
| 012980 | tea pastry, short pastry, chocolate coated | 719 | 0.1 | 1.3 | 1.2 | 0.3 | 12.9 | 6.7 | — | tr. | 21.9 | 1.0 | 0.2 |
| 012981 | tea pastry, short pastry | 716 | — | — | 0.9 | 0.7 | 6.4 | 4.1 | tr. | tr. | 25.1 | 1.1 | 0.2 |
| 012982 | tea pastry, amaretti | 717 | — | — | 0.2 | 0.2 | 1.3 | 0.9 | — | — | 10.0 | 0.5 | 0.1 |
| 012991 | colomba-panettone | 718 | — | — | 0.3 | 0.7 | 1.3 | 4.5 | 0.6 | 0.4 | 26.7 | 2.3 | 0.5 |
| 012993 | sfogliatella | 694 | — | — | 0.2 | 0.3 | 0.6 | 2.1 | 0.2 | 0.1 | 23.1 | 2.3 | — |
| 012994 | tartufi | 703 | — | — | 1.2 | 1.1 | 15.5 | 7.1 | — | — | 15.5 | 0.8 | — |
| 012995 | diplomatici | 693 | — | — | 0.1 | 0.1 | 1.0 | 2.3 | 0.5 | 0.3 | 23.6 | 3.2 | 1.0 |
| 012996 | deliziosa | 695 | — | — | 0.6 | 0.5 | 4.7 | 3.2 | 0.2 | 0.2 | 20.1 | 1.7 | — |
| 012997 | pesca | 715 | — | 0.5 | 0.4 | 0.5 | 4.0 | 2.9 | 0.2 | 0.1 | 23.2 | 2.5 | 0.5 |
| <i>Sauces</i> | | | | | | | | | | | | | |
| 013998 | gran ragu | 692 | — | — | — | — | — | 0.7 | 0.2 | — | 12.0 | 1.3 | 0.3 |
| <i>Meat</i> | | | | | | | | | | | | | |
| 011149 | salsiccia fresca | 689 | — | — | tr. | tr. | tr. | 1.3 | 0.1 | 0.1 | 24.2 | 2.6 | 0.5 |
| 011150 | salsiccia secca | 688 | — | — | tr. | tr. | tr. | 1.2 | 0.1 | 0.1 | 22.6 | 2.5 | 0.4 |
| 011155 | mortadella suino | 686 | — | — | tr. | tr. | 1.3 | — | — | — | 22.8 | 2.6 | 0.3 |
| 011198 | salame napoletano | 723 | — | — | tr. | tr. | 1.3 | — | — | tr. | 22.8 | 3.3 | 0.4 |
| 011199 | soppresata | 687 | — | — | tr. | tr. | 1.8 | — | — | — | 21.9 | 2.4 | 0.4 |
| 012992 | sanguinaccio | 691 | — | — | 0.3 | 0.8 | 0.5 | 1.6 | — | — | 24.7 | 1.0 | — |
| <i>Dairy products</i> | | | | | | | | | | | | | |
| 011600 | latte di capra | 709 | 2.2 | 4.2 | 2.6 | 7.8 | 4.0 | 8.8 | 0.5 | 1.0 | 23.2 | 1.8 | 0.9 |
| 011793 | ricotta fresh cheese, cow's milk | 725 | 2.4 | 1.2 | 0.7 | 1.7 | 2.4 | 9.9 | 2.2 | 1.8 | 31.8 | 2.7 | 1.4 |
| 011794 | mozzarella | 722 | 4.8 | 2.4 | 0.9 | 1.8 | 2.3 | 9.3 | 1.3 | 1.5 | 27.8 | 2.4 | 1.3 |
| 011795 | ricotta fresh cheese, goat's milk | 724 | 3.4 | 2.8 | 2.5 | 8.6 | 3.9 | 8.8 | 0.4 | 1.0 | 24.2 | 1.8 | 1.0 |
| 011796 | mozzarella bufala | 685 | 3.4 | 2.1 | 0.9 | 2.1 | 2.7 | 10.1 | 1.1 | 1.4 | 29.6 | 2.3 | 1.1 |
| 011797 | formaggio di capra fresca | 684 | 2.1 | 3.4 | 2.6 | 8.3 | 3.8 | 9.0 | 0.3 | 1.0 | 25.6 | 1.8 | 0.9 |
| 011798 | formaggio di capra stagionato | 704 | 2.2 | 4.8 | 3.0 | 8.4 | 4.0 | 9.0 | 0.3 | 0.8 | 21.6 | 1.8 | 1.3 |
| 012986 | zuppa inglese | 721 | — | — | tr. | 0.5 | 4.2 | 2.4 | — | — | 25.4 | 0.8 | — |
| 012990 | ice cream mix, cream base | 727 | 0.2 | 0.4 | 3.1 | 2.7 | 21.5 | 10.6 | 0.1 | tr. | 12.2 | 0.3 | 0.2 |
| 012998 | gelati confezionati con biscotti | 683 | 0.1 | 0.5 | 1.6 | 1.7 | 11.0 | 8.0 | 0.6 | 0.3 | 23.4 | 1.6 | 0.6 |
| 012999 | gelato confezionati cornetti | 682 | 0.2 | 0.7 | 5.6 | 4.7 | 34.8 | 15.6 | 0.1 | 0.1 | 12.5 | 0.4 | 0.2 |
| 015099 | sofficieni, fried | 720 | 0.2 | 0.1 | 0.2 | 0.1 | 0.4 | 1.2 | 0.2 | 0.1 | 13.8 | 0.6 | 0.2 |
| <i>Oils and fats</i> | | | | | | | | | | | | | |
| 010901 | olive oil | 708 | — | — | — | — | — | — | — | — | 11.2 | 0.8 | — |
| <i>Miscellaneous</i> | | | | | | | | | | | | | |
| 010382 | patatine | 702 | — | — | — | — | — | 0.1 | tr. | — | 11.0 | 0.1 | 0.1 |

¹ Proportion of fatty acids calculated as proportion of fatty acid methyl esters by weight

² —, < 0.1

³ tr., trace

Table 7, continued

| Food table no. | Fatty acids composition, g/100 g total fatty acids ¹ | | | | | | | | | | | | |
|----------------|---|------|------|------|------|------|------|------|------|------|------|------|-------|
| | 18:0 | 18:1 | 18:2 | 18:3 | 20:0 | 20:1 | 20:2 | 20:3 | 22:0 | 22:1 | 24:0 | 24:1 | other |
| 010098 | 14.5 | 5.4 | 4.5 | 0.5 | 0.2 | tr. | — | — | tr. | — | — | — | 3.2 |
| 010098 | 18.7 | 25.8 | 16.0 | 0.4 | 0.3 | 0.3 | — | — | — | — | 0.6 | 1.3 | 0.1 |
| 010098 | 11.4 | 19.9 | 7.0 | 0.2 | 0.3 | tr. | — | — | — | — | 0.3 | 0.4 | 0.5 |
| 010098 | 7.6 | 36.1 | 9.0 | 0.2 | 0.4 | 0.2 | — | — | 0.1 | — | — | — | 4.5 |
| 010099 | 1.5 | 13.0 | 51.5 | 3.2 | — | 0.5 | 0.1 | — | 0.2 | — | — | — | 4.8 |
| 012980 | 9.9 | 25.0 | 8.5 | 0.5 | 0.8 | 1.2 | 0.3 | — | 0.6 | 1.0 | 0.4 | 0.4 | 0.8 |
| 012981 | 6.1 | 31.8 | 12.6 | 0.8 | 0.8 | 1.4 | 0.1 | — | 0.6 | 1.2 | 0.8 | 0.6 | 4.6 |
| 012982 | 3.8 | 64.8 | 14.1 | 0.3 | 0.3 | 0.4 | — | — | 0.2 | 0.2 | 1.0 | 1.0 | 1.1 |
| 012991 | 12.5 | 35.1 | 9.4 | 0.7 | 0.5 | 0.5 | 0.2 | 0.2 | tr. | 0.1 | 0.8 | 0.8 | 1.9 |
| 012993 | 11.6 | 35.8 | 13.7 | 0.7 | 0.3 | 0.8 | — | — | — | — | — | 0.5 | 7.3 |
| 012994 | 16.2 | 32.0 | 7.5 | 0.2 | 0.5 | 0.6 | — | — | 0.3 | 0.4 | — | — | 1.2 |
| 012995 | 18.2 | 38.7 | 10.2 | 0.4 | 0.3 | 0.6 | — | — | — | — | — | — | — |
| 012996 | 13.2 | 38.8 | 10.8 | 0.4 | 0.4 | 0.5 | — | — | — | — | — | 0.8 | 3.9 |
| 012997 | 13.3 | 35.5 | 9.8 | 0.6 | 0.3 | 0.6 | 0.2 | 0.4 | tr. | 0.2 | 1.7 | 1.9 | 0.7 |
| 013998 | 5.3 | 37.5 | 31.8 | 5.8 | 0.6 | 1.5 | — | — | 0.4 | 1.7 | — | — | 0.9 |
| 011149 | 16.3 | 41.9 | 9.4 | 0.4 | 0.5 | 1.1 | 0.4 | 0.1 | 0.3 | 0.7 | — | — | 0.1 |
| 011150 | 15.3 | 44.6 | 8.6 | 0.2 | 0.4 | 1.2 | 0.5 | 0.1 | 0.2 | 0.6 | — | — | 1.4 |
| 011155 | 14.2 | 46.0 | 8.3 | 0.4 | 0.4 | 1.3 | 0.6 | 0.2 | 0.2 | — | 0.3 | — | 1.1 |
| 011198 | 12.6 | 46.2 | 10.0 | 0.3 | 0.2 | 1.1 | 0.4 | 0.2 | — | 0.3 | — | — | 0.9 |
| 011199 | 14.5 | 47.6 | 7.7 | 0.5 | 0.3 | 1.3 | 0.4 | 0.2 | 0.2 | 0.5 | — | — | 1.1 |
| 012992 | 27.8 | 34.4 | 5.5 | 0.3 | 0.9 | 0.3 | 0.2 | 0.1 | 0.2 | 0.4 | 0.4 | — | 0.6 |
| 011600 | 12.0 | 23.8 | 2.0 | 0.6 | 0.8 | 0.5 | — | — | — | — | — | — | 3.3 |
| 011793 | 10.7 | 23.2 | 2.4 | 0.9 | 1.1 | 0.5 | — | — | — | — | — | — | 4.0 |
| 011794 | 11.5 | 23.5 | 2.2 | 1.1 | 1.2 | 0.4 | — | — | 0.2 | 0.1 | — | — | 4.0 |
| 011795 | 10.8 | 22.1 | 3.3 | 1.0 | 0.7 | 0.3 | — | — | 0.2 | — | — | — | 3.1 |
| 011796 | 11.6 | 23.0 | 2.4 | 0.9 | 1.1 | 0.4 | — | — | 0.2 | 0.2 | — | — | 3.4 |
| 011797 | 13.2 | 20.9 | 2.6 | 0.6 | 0.6 | — | — | — | — | — | — | — | 3.3 |
| 011798 | 11.0 | 23.3 | 2.7 | 1.4 | 1.0 | 0.3 | — | — | 0.1 | — | — | — | 3.0 |
| 012986 | 6.7 | 39.5 | 10.5 | 0.4 | 0.4 | 0.4 | — | — | 0.2 | 0.2 | 0.9 | 0.9 | 6.6 |
| 012990 | 6.6 | 31.0 | 8.9 | 0.1 | 0.6 | 0.3 | — | — | 0.8 | — | — | — | 0.2 |
| 012998 | 14.2 | 23.1 | 7.5 | 0.7 | 1.0 | 0.5 | — | — | 0.6 | 0.4 | — | — | 2.6 |
| 012999 | 7.6 | 13.0 | 2.7 | 0.2 | 0.5 | 0.1 | — | — | 0.3 | — | — | — | 0.7 |
| 015099 | 3.9 | 25.0 | 47.4 | 2.6 | 0.4 | 0.3 | — | — | 0.3 | 0.1 | — | — | 2.8 |
| 010901 | 1.9 | 75.2 | 9.4 | 0.7 | 0.4 | 0.3 | — | — | 0.1 | — | 0.3 | — | — |
| 010382 | 4.6 | 24.4 | 51.3 | 6.8 | 0.5 | 0.3 | — | — | 0.5 | tr. | — | — | 0.3 |

Table 8. Fatty acid composition of food samples from Finland

| Food table no. | Food | Lab code | Fatty acid composition, g/100 g total fatty acids ¹ | | | | | | | | | | | | | | | | | | |
|-----------------------|---------------------|----------|--|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | | | 4:0 | 6:0 | 8:0 | 10:0 | 12:0 | 14:0 | 14:1 | 15:0 | 16:0 | 16:1 | 17:0 | 18:0 | 18:1 | 18:2 | 18:3 | 20:0 | 20:1 | 22:0 | other |
| <i>Meat</i> | | | | | | | | | | | | | | | | | | | | | |
| 663 | laurantai | 733 | — ² | — | — | — | 0.1 | 1.3 | — | — | 24.2 | 3.4 | 0.4 | 14.4 | 46.1 | 7.4 | 0.2 | 0.2 | 1.3 | — | 1.0 |
| 664 | hot dog | 740 | — | — | — | — | 0.1 | 1.6 | 0.1 | — | 26.0 | 3.5 | 0.4 | 14.5 | 43.5 | 8.0 | 0.4 | 0.1 | 1.1 | — | 0.8 |
| 665 | lenkki | 731 | — | — | — | — | 0.1 | 1.7 | 0.1 | — | 26.3 | 3.5 | 0.3 | 14.9 | 44.7 | 6.4 | 0.1 | 0.2 | 1.0 | — | 0.6 |
| 668 | dry sausage | 739 | — | — | — | — | 0.1 | 1.8 | 0.4 | — | 25.7 | 3.5 | 0.6 | 15.8 | 43.5 | 6.2 | 0.2 | 0.2 | 1.0 | — | 1.0 |
| 669 | maksa-makkara | 736 | — | — | — | — | 0.1 | 1.2 | — | — | 24.2 | 3.0 | 0.4 | 15.0 | 45.5 | 7.9 | 0.4 | 0.3 | 1.3 | — | 0.8 |
| 672 | cooked meat sausage | 730 | — | — | — | — | 0.1 | 1.5 | 0.2 | — | 24.5 | 3.5 | 0.4 | 14.3 | 45.9 | 6.8 | 0.2 | 0.3 | 1.3 | — | 1.2 |
| 675 | balkamin | 738 | — | — | — | — | 0.1 | 1.4 | — | — | 25.9 | 2.9 | 0.2 | 15.8 | 44.7 | 7.0 | 0.2 | 0.2 | 1.1 | — | 0.6 |
| <i>Dairy products</i> | | | | | | | | | | | | | | | | | | | | | |
| 524 | cheese, emmental | 734 | 2.5 | 1.8 | 0.8 | 1.9 | 2.6 | 10.0 | 1.8 | 1.2 | 30.3 | 3.4 | 1.1 | 16.0 | 24.0 | 2.5 | 0.9 | 0.8 | 0.4 | — | 2.8 |
| 525 | cheese, edam | 735 | 2.4 | 1.5 | 0.6 | 1.6 | 2.2 | 9.3 | 1.5 | 1.1 | 30.6 | 2.9 | 1.0 | 12.6 | 25.0 | 2.5 | 1.0 | 1.0 | 0.6 | — | 2.6 |
| 540 | ice cream | 737 | 2.1 | 1.6 | 0.8 | 2.1 | 2.7 | 8.2 | 1.7 | 0.9 | 31.5 | 2.9 | 1.2 | 12.8 | 20.1 | 2.4 | 1.9 | 1.2 | 0.4 | — | 5.6 |
| <i>Oils and fats</i> | | | | | | | | | | | | | | | | | | | | | |
| 404 | margarine | 732 | — | — | 0.1 | 0.1 | 0.7 | 0.5 | — | — | 13.5 | 0.1 | — | 6.9 | 36.2 | 38.7 | 2.7 | 0.2 | 0.2 | 0.4 | — |

¹ Proportion of fatty acids calculated as proportion of fatty acid methyl esters by weight

² < 0.1

Table 9. Number of products in each country for which the nutrient data obtained by analysis differed by more than 5 g per 100 g edible portion for the data given in the local food composition tables¹

| Nutrient | Number of products | | |
|------------------------------|--------------------|-----------------|---------|
| | Ghana | The Philippines | Finland |
| Water | 16 | 8 | — |
| Protein | 5 | 3 | — |
| Fat | 6 | 4 | 1 |
| Carbohydrate | 18 | 5 | 5 |
| Saturated fatty acids | — | — | 1 |
| Mono-unsaturated fatty acids | — | — | 1 |
| Poly-unsaturated fatty acids | — | — | — |
| Number of products analysed | 52 | 18 | 11 |

¹ Data for Italy is not included because comparisons were made for only 2 products

Table 10. Differences between the proximate composition presented in this report and the values published in the local food composition tables

| Food table no. | Food | Difference in proximate composition, g/100 g edible portion ¹ | | | |
|---------------------------------|-----------------------------|--|----------------|-------|--------------------|
| | | Water | Protein | Fat | Total carbohydrate |
| Ghana | | | | | |
| <i>Cereal products</i> | | | | | |
| 11 | akpler | + 9.6 | — ² | — | + 9.9 |
| 37 | togbei | -11.8 | — | — | + 7.5 |
| <i>Starchy roots and fruits</i> | | | | | |
| 44 | cassava balls, fried | - 9.1 | — | — | +14.7 |
| 47 | kokonte | +58.9 | — | — | -56.4 |
| 59 | plantain, roasted | + 6.8 | — | — | + 6.8 |
| 68 | yam, boiled | - 8.2 | — | — | + 9.3 |
| <i>Nuts and seeds</i> | | | | | |
| 88 | groundnuts, roasted | + 1.8 | — | — | -10.0 |
| <i>Soups</i> | | | | | |
| 167 | groudnut soup | - 7.4 | — | - 4.8 | +12.9 |
| <i>Stews</i> | | | | | |
| 164 | agushie stew | — | — | - 5.5 | + 6.4 |
| 169 | nkontomire stew | - 8.3 | — | — | + 7.7 |
| <i>Sauces</i> | | | | | |
| 172 | palaver sauce | -12.0 | — | +13.5 | — |
| <i>Fish and shell-fish</i> | | | | | |
| 217 | anchovy, smoked | — | — | + 5.4 | -14.4 |
| 218 | anchovy, sun-dried | - 7.1 | + 7.0 | — | — |
| 226 | kako | -12.6 | + 5.8 | — | — |
| 239 | mackerel, tomatoes | - 5.7 | -16.4 | +13.1 | — |
| 250 | sardines, fried | - 6.1 | — | — | +27.3 |
| The Philippines | | | | | |
| <i>Cereal products</i> | | | | | |
| 31 | mike, luto | -24.1 | — | — | +24.5 |
| <i>Nuts and seeds</i> | | | | | |
| 333 | coconut milk | +14.3 | — | -17.4 | + 7.3 |
| <i>Meat and eggs</i> | | | | | |
| 595 | beef, lean prepared | -17.2 | +10.6 | — | — |
| 664 | chicken, lean meat prepared | + 6.9 | -13.0 | — | — |
| 1089 | cured pork meat, raw | +14.0 | — | -10.6 | — |
| 1102 | hot dogs, unprepared | - 7.9 | — | + 8.2 | — |
| <i>Miscellaneous</i> | | | | | |
| 1029 | turon | — | — | + 5.3 | - 5.1 |
| Finland | | | | | |
| 668 | day sausage | — | — | 11.0 | 13.5 |

¹ Difference between values presented in this report minus values published in the local food composition tables

² Difference < 5 g/100 g

Appendix 1. Detailed information on the food samples collected from Ghana for chemical analysis

| Food table no. | Food | Lab code | Place of sampling | Number of food items used in one mixed sample | Total weight of original sample, g | Weight after removal of non-edible parts, g | Remarks |
|---------------------------------|-------------------------|----------|-------------------|---|------------------------------------|---|--|
| <i>Cereal products</i> | | | | | | | |
| 10 | akassa, koko | 554 | Accra | 7 | 1000 | 250 | thin fermented pap, made of corn dough |
| 11 | akpler | 586 | Accra | 7 | 1200 | 1200 | mixture of corn dough and cassava dough |
| 13 | banku | 555 | Accra | 7 | 2500 | 2500 | thick porridge made of corn dough |
| 19 | kenkey, Ga | 556 | Accra | 4 | 700 | 620 | fermented for a short time |
| 20 | kenkey, Fante | 557 | Accra | 3 | 1200 | 100 | thick porridge made of fermented corn dough, made into balls and wrapped in corn husks or leaves and steamed as Ga; shorter fermentation; the balls are wrapped in plantain leaves |
| 29 | rice, raw | 558 | Accra | 3 | 500 | 500 | — |
| 31 | rice, cooked | 559 | Accra | 4 | 550 | 550 | — |
| 35 | wheat bread | 560 | Accra | 4 | 500 | 500 | — |
| 37 | togbei | 573 | Accra | 7 | 350 | 350 | dough made of flour, sugar, palm wine, yeast, egg; fried in coconut oil |
| 350 | biscuits | 582 | Accra | 4 | 50 | 50 | dry biscuits |
| 429 | rice water | 609 | Accra | 5 | 750 | 750 | rice cooked in water; sugar added |
| 434 | wheat | 610 | Accra | 4 | 400 | 400 | cooked |
| <i>Starchy roots and fruits</i> | | | | | | | |
| 39 | cassava, raw | 561 | Accra | 3 | 2500 | 1400 | — |
| 40 | cassava, boiled | 587 | Accra | 6 | 600 | 600 | — |
| 44 | cassava balls, fried | 588 | Accra | 6 | 150 | 150 | balls made of cassava dough, fried in coconut oil |
| 46 | gari | 562 | Accra | 3 | 500 | 500 | fresh cassava grated and squeezed out, then partly fermented and roasted |
| 47 | kokonte | 563 | Accra | 7 | 1000 | 1000 | porridge cooked of dried fermented cassava |
| 49 | yake yake | 589 | Accra | 4 | 650 | 650 | dry spongy cake made of steamed, fermented cassava dough |
| 53 | cocoyam, boiled | 564 | Accra | 7 | 600 | 600 | — |
| 57 | plantain, unripe boiled | 565 | Accra | 7 | 1200 | 1200 | — |
| 58 | plantain, ripe boiled | 566 | Accra | 7 | 500 | 500 | — |
| 59 | plantain, roasted | 567 | Accra | 7 | 200 | 200 | — |
| 61 | plantain, fufu | 568 | Accra | 7 | 1200 | 1200 | mixture of plantain and cassava boiled and pounded with water |
| 67 | yam, raw | 569 | Accra | 3 | 1100 | 900 | — |
| 68 | yam, boiled | 570 | Accra | 7 | 600 | 600 | — |
| 71 | yam | 577 | Accra | 6 | 200 | 200 | fried in coconut oil |
| 151 | banana | 571 | Accra | 3 | 750 | 500 | ripe raw |
| 330 | plantain, ripe | 574 | Accra | 7 | 400 | 400 | fried in palm kernel oil |
| 331 | plantain, ripe | 576 | Accra | 7 | 400 | 400 | fried in coconut oil |
| 335 | cocoyam, porridge | 579 | Accra | 3 | 600 | 600 | contains cocoyam, fish, vegetables and salad oil |
| 454 | cocoyam | 574 | Accra | 5 | 150 | 150 | fried in palm kernel oil |
| 559 | plantain balls, ripe | 611 | Accra | 7 | 900 | 900 | fried in coconut oil |
| <i>Legumes</i> | | | | | | | |
| 336 | beans | 580 | Accra | 7 | 600 | 600 | beans cooked with palm oil |
| <i>Nuts and seeds</i> | | | | | | | |
| 88 | groundnuts, roasted | 578 | Accra | 4 | 300 | 300 | — |
| 102 | coconut flesh | 590 | Accra | 5 | 724 | 724 | — |
| 104 | coconut milk | 591 | Accra | 5 | 725 | 725 | — |
| <i>Soups</i> | | | | | | | |
| 167 | groundnut soup | 594 | Accra | 4 | 800 | 800 | soup made of roasted and grounded peanuts, vegetables, meat or fish; no oil added |
| 168 | light soup | 595 | Accra | 5 | 500 | 500 | soup made with meat and vegetables, especially garden eggs |
| 170 | okro soup | 597 | Accra | 4 | 400 | 400 | soup made with chicken, okro and other vegetables |
| 173 | palm soup | 550 | Accra | 7 | 500 | 500 | soup made with pounded palm nuts and vegetables |
| 570 | okro soup | 615 | Accra | 4 | 600 | 600 | as okrosoup (170); palm oil added |

Appendix 1, continued

| Food table no. | Food | Lab code | Place of sampling | Number of food items used in one mixed sample | Total weight of original sample, g | Weight after removal of non-edible parts, g | Remarks |
|----------------------------|--------------------------|----------|-------------------|---|------------------------------------|---|---|
| <i>Stews</i> | | | | | | | |
| 164 | agushie stew | 592 | Accra | 5 | 300 | 300 | basic vegetable stew thickened with ground melonseeds; prepared with palm oil |
| 165 | bean stew | 593 | Accra | 5 | 500 | 500 | contains cowpea, fish, vegetables and palm oil |
| 169 | nkontomire stew | 596 | Accra | 7 | 850 | 850 | contains cocoyamleaves, other vegetables, fish and palm oil |
| 171 | okro and garden egg stew | 598 | Accra | 7 | 600 | 600 | okro, garden egg, other vegetables, fish and palm oil |
| 335 | pie | 608 | Accra | 5 | 200 | 200 | meat pie |
| 339 | rice and stew | 549 | Accra | 7 | 400 | 400 | contains vegetables, rice and coconut oil |
| 340 | rice and beans | 581 | Accra | 7 | 1250 | 1250 | cooked |
| 572 | garden egg stew | 616 | Accra | 7 | 800 | 800 | contains boiled mashed garden egg, vegetables, fish and palm oil |
| <i>Sauces</i> | | | | | | | |
| 172 | palaver sauce | 599 | Accra | 7 | 800 | 800 | contains leaves, vegetables, ground melon seeds, fish and palm oil |
| 566 | gravy | 612 | Accra | 3 | 300 | 300 | pepper, onions, tomatoes fried in coconutoil |
| 567 | gravy | 613 | Accra | 4 | 300 | 300 | pepper, onions, tomatoes fried in palm kernel oil |
| 568 | gravy | 614 | Accra | 4 | 400 | 400 | pepper, onions, tomatoes fried in palm oil |
| <i>Meat</i> | | | | | | | |
| 197 | cowhide | 554 | Accra | 7 | 250 | 250 | boiled |
| 199 | snails | 542 | Accra | 7 | 1200 | 250 | boiled |
| <i>Fish and shell-fish</i> | | | | | | | |
| 217 | anchovy, smoked | 544 | Accra | 6 | 600 | 600 | — |
| 218 | anchovy, sun-dried | 545 | Accra | 7 | 500 | 500 | — |
| 226 | kako | 600 | Accra | 4 | 250 | 250 | salted dried fish |
| 228 | crab | 601 | Accra | 7 | 800 | 200 | raw |
| 233 | mackerel, smoked | 551 | Accra | 7 | 800 | 600 | — |
| 239 | mackerel, tomatoes | 552 | Accra | 1 | 200 | 200 | in tomato-sauce canned |
| 249 | sardines, smoked | 543 | Accra | 6 | 600 | 600 | dry smoked |
| 250 | sardines, fried | 603 | Accra | 7 | 200 | 200 | fried in coconut oil |
| 260 | sardines, canned | 553 | Accra | 1 | 275 | 275 | canned in oil |
| 262 | seabream, smoked | 546 | Accra | 4 | 600 | 400 | — |
| 270 | triggerfish | 604 | Accra | 10 | 1500 | 250 | salted dried fish |
| 272 | tuna, smoked | 547 | Accra | 7 | 260 | 250 | — |
| 282 | tilapia, salted | 605 | Accra | 10 | 1400 | 250 | salted dried |
| 341 | herring, smoked | 541 | Accra | 7 | 700 | 450 | — |
| 679 | tilapia | 617 | Accra | 8 | 200 | 200 | fried in palm kernel oil |
| 683 | tilapia | 548 | Accra | 5 | 200 | 200 | fried in coconut oil |
| 684 | fishmix, smoked | 618 | Accra | 7 | 800 | 200 | — |
| 6175 | fishmix, fried | 620 | Accra | 3 | 100 | 100 | oil unknown |
| <i>Dairy products</i> | | | | | | | |
| 240 | milk, 'Nestlé' | 602 | Accra | 1 | | | full-cream evaporated milk, canned |
| <i>Oils and fats</i> | | | | | | | |
| 308 | coconut oil | 583 | Accra | 3 | 300 | 300 | — |
| 311 | palm oil | 584 | Accra | 3 | 300 | 300 | — |
| 711 | palm kernel oil | 585 | Accra | 3 | 300 | 300 | — |
| 712 | margarine | 619 | Accra | 2 | 450 | 450 | 'Blueband' |
| <i>Miscellaneous</i> | | | | | | | |
| 332 | toffee | 606 | Accra | | 150 | 150 | — |
| 334 | milk candy | 607 | Accra | | 60 | 60 | — |
| 351 | sugar cane | 572 | Accra | 3 | 1500 | 1500 | — |

Appendix 2. Detailed information on the food samples collected from The Philippines for chemical analysis

| Food table no. | Food | Lab code | Place of sampling | Number of food items used in one mixed sample | Total weight of original sample, g | Weight after removal of non-edible parts, g | Remarks |
|--------------------------------|-----------------------------|----------|-------------------|---|------------------------------------|---|---|
| <i>Cereal products</i> | | | | | | | |
| 31 | mike, luto | 31 | San Pablo | 2 | 400 | 400 | wheat noodles boiled |
| 967 | mamon | 742 | San Pablo | 2 | 500 | 500 | plain spongy cake |
| 972 | american loaf | 743 | San Pablo | 2 | 300 | 300 | white bread |
| 978 | pan de sal (bread) | 744 | San Pablo | 3 | 510 | 510 | white bread |
| 1351 | biscuits marie | 781 | San Pablo | 2 | 455 | 455 | mixture of biscuits favorita and marie |
| 1703 | biscuits favorita | | | | | | |
| 1704 | rice-krupek | 782 | San Pablo | 1 | 340 | 340 | — |
| 1710 | fried corn grits | 784 | San Pablo | 1 | 275 | 275 | fried in coconut oil |
| <i>Nuts and seeds</i> | | | | | | | |
| 333 | coconut milk | 763 | San Pablo | 2 | 675 | 675 | — |
| 1015 | peanut butter | 780 | San Pablo | 3 | 450 | 450 | mixture of 3 types; one with butter; two with hardened vegetable oil, contains sugar |
| 1712 | fried peanuts | 1712 | San Pablo | 1 | 270 | 270 | fried in coconut oil |
| <i>Soups, stews and sauces</i> | | | | | | | |
| 1068 | dinuguan | 751 | San Pablo | 2 | 650 | 650 | dish with pork blood and intestines |
| 1587 | bopiz | 779 | San Pablo | 2 | 300 | 300 | boiled pork lungs in sauce |
| 1701 | beef mami | 753 | San Pablo | 2 | 510 | 510 | wheat noodle soup |
| 1705 | mungbean sotanghon | 752 | San Pablo | 3 | 775 | 775 | contains sotanghon, mungbean, vegetables and coconut oil |
| <i>Meat and eggs</i> | | | | | | | |
| 595 | beef, lean prepared | 761 | San Pablo | 2 | 170 | 170 | fried in coconut oil |
| 664 | chicken, lean meat prepared | 774 | San Pablo | 1 | 120 | 120 | fried in coconut oil |
| 1089 | cured pork meat, raw | 749 | San Pablo | 3 | 450 | 450 | — |
| 1102 | hot dogs, unprepared | 746 | San Pablo | 6 | 315 | 315 | pork meat, raw |
| 1165 | balut | 762 | San Pablo | 1 | | | fertilized duck egg |
| 1816 | chicken wings, prepared | 773 | San Pablo | 1 | 130 | 130 | prepared with coconut oil |
| 1817 | hot dogs, prepared | 745 | San Pablo | | 300 | 300 | pork meat fried in coconut oil |
| 1818 | longanisa, prepared | 770 | San Pablo | 3 | 210 | 210 | native sausage fried in coconut oil |
| 1819 | cured pork meat, prepared | 760 | San Pablo | 3 | 240 | 240 | fried in coconut oil |
| 1820 | pork, lean meat prepared | 771 | San Pablo | 2 | 180 | 180 | fried in coconut oil |
| 1821 | pork, medium fat prepared | 772 | San Pablo | 2 | 223 | 223 | fried in coconut oil |
| <i>Fish and shell-fish</i> | | | | | | | |
| 749 | fish, fat raw, (Bangus) | 747 | San Pablo | 1 | | 290 | milk fish (Bangus) |
| 1226 | ayungin, dried | 759 | San Pablo | 1 | | 137 | dried grunt silver fried in coconut oil |
| 1810 | fish, fat prepared (Bangus) | 748 | San Pablo | 1 | | 257 | milk fish (Bangus) fried in coconut oil |
| 1811 | tunsoy, dried prepared | 768 | San Pablo | 1 | | 62 | dried fimbriated herring, fried in coconut oil |
| 1812 | tamban, dried prepared | 769 | San Pablo | 1 | | 115 | dried indian sardine fried in coconut oil |
| 1814 | tamban, smoked prepared | 767 | San Pablo | 1 | | 70 | sun dried indian sardine fried in coconut oil |
| 1830 | fish, lean, raw | 775 | San Pablo | 2 | | 450 | mixture of golden caesio and mud fish |
| 1831 | fish, lean prepared | 776 | San Pablo | 2 | | 507 | fried in coconut oil; mixture of golden caesio and mud fish |
| 1832 | fish, medium fat raw | 777 | San Pablo | 6 | | 717 | mixture of tuna bonita, banded cavalla, tilapia, round scad, ribbon-finned nemipterid, short boiled mackerel, common slip mouth |
| 1833 | fish, medium fat prepared | 778 | San Pablo | 7 | | 767 | fried in coconut oil; mixture as raw medium fat fish (1832) |

Appendix 2, continued

| Food table no. | Food | Lab code | Place of sampling | Number of food items used in one mixed sample | Total weight of original sample, g | Weight after removal of non-edible parts, g | Remarks |
|-----------------------|---------------------------------|----------|-------------------|---|------------------------------------|---|--|
| <i>Dairy products</i> | | | | | | | |
| 1153 | evaporated filled milk | 786 | San Pablo | 3 | 686 | 686 | canned evaporated filled milk; butterfat is replaced by maize oil and coconut oil mixture of 'Alaska', 'Carnation', 'Liberty' |
| 1155 | condensed sweetened filled milk | 783 | San Pablo | 3 | 900 | 900 | canned condensed sweetened filled milk; butterfat is replaced by maize oil and coconut oil mixture of 'Alaska', 'Carnation', 'Liberty' |
| <i>Oils and fats</i> | | | | | | | |
| 1302 | margarine | 757 | San Pablo | 2 | 250 | 250 | mixture of 'Royal' and 'Star' |
| 1711 | margarine-dairy cream | 756 | San Pablo | 1 | 225 | 225 | — |
| <i>Drinks</i> | | | | | | | |
| 1310 | ceylon moss beverage | 754 | San Pablo | 3 | 722 | 722 | beverage with agar-agar and sugar |
| <i>Miscellaneous</i> | | | | | | | |
| 1029 | turon | 741 | San Pablo | 1 | 240 | 240 | fried sweetened banana in wrapper |
| 1708 | halo-halo | 750 | San Pablo | 3 | 680 | 680 | mixed sweetened tubers with evaporated milk and ice |

Appendix 3. Detailed information on the food samples collected from Italy for chemical analysis

| Food table number | Food | Lab code | Place of sampling | Number of food items used in one mixed sample | Total weight of original sample, g | Weight after removal of non-edible parts, g | Remarks |
|------------------------|---|----------|-------------------|---|------------------------------------|---|--|
| <i>Cereal products</i> | | | | | | | |
| 010098 | biscotti farciti A | 697 | Casavalino | 1 | 120 | 120 | bambi balocco } biscuits containing cream and chocolate |
| 010098 | biscotti farciti B | 698 | Casavalino | 1 | 140 | 140 | |
| 010098 | biscotti farciti C | 699 | Casavalino | 1 | 90 | 90 | |
| 010098 | biscotti farciti D | 700 | Casavalino | 1 | 140 | 140 | |
| 010099 | pane biscotti | 696 | St. Mauro | 10 | 303 | 303 | |
| | | | Casalsottano | | | | |
| | | | Casalgrano | | | | |
| 012980 | tea pastry, short pastry chocolate-coated | 719 | Rome | 3 | 280 | 280 | |
| 012981 | tea pastry, short-pastry | 716 | Rome | 3 | 280 | 280 | |
| 012982 | tea pastry, amaretti | 717 | Rome | 4 | 280 | 280 | |
| 012991 | colomba-panettone | 718 | Casavalino | 2 | 1500 | 335 | panettone-type cake |
| | | | Pioppi | | | | |
| 012993 | sfogliatella | 694 | Agropoli | 3 | 270 | 270 | puff pastry |
| 012994 | tartufi | 703 | Agropoli | 16 | 291 | 291 | pastry with chocolate |
| 012995 | diplomatici | 693 | Casavalino-Marina | 3 | 306 | 306 | pastry with cake and cream |
| 012996 | deliziosa | 695 | Casavalino-Marina | 3 | 280 | 280 | cake with eggs, flour, butter, sugar, chocolate |
| 012997 | pesca | 715 | Casavalino-Marina | 4 | 300 | 300 | pastry with cream and alcohol (rum) |
| <i>Sauces</i> | | | | | | | |
| 013998 | gran ragu | 692 | Casavalino | 1 | 370 | 370 | canned sauce with meat, 'Star' |
| <i>Meat</i> | | | | | | | |
| 011149 | salsiccia fresca | 689 | Vallo | 1 | 386 | 382 | fresh pork sausage, raw |
| 011150 | salsiccia secca | 688 | Vallo | 1 | 409 | 396 | dried pork sausage, raw |
| 011155 | mortadella suino | 686 | Casavalino | 2 | 298 | 298 | pork sausage, prepared |
| | | | Vallo | | | | |
| 011198 | salame napoletano | 723 | Casavalino | 1 | 270 | 270 | sausage, prepared |
| 011199 | soppressata | 687 | Casavalino | 3 | 272 | 273 | lean pork sausage, raw |
| | | | Aguavella | | | | |
| 012992 | sanguinaccio | 691 | St. Mauro | 1 | 332 | 332 | soft mixture prepared with beef blood and chocolate |
| <i>Dairy products</i> | | | | | | | |
| 011600 | latte di capra | 709 | St. Mauro | 6 | 321 | 321 | goat's milk |
| | | | Pioppi | | | | |
| 011793 | ricotta fresh cheese, cow's milk | 725 | Aquavella | 1 | 350 | 273 | — |
| 011794 | mozzarella | 722 | Aquavella | 2 | 500 | 280 | fresh soft cheese, made of cow's milk |
| 011795 | ricotta fresh cheese, goat's milk | 724 | Amalafede | 2 | 450 | 285 | — |
| 011796 | mozzarella bufala | 685 | Casavalino | 2 | 326 | 326 | fresh soft cheese, made of bufalo milk |
| | | | Pioppi | | | | |
| 011797 | formaggio di capra fresco | 684 | St. Mauro | 6 | 294 | 294 | soft goat's cheese |
| 011798 | formaggio di capra stagionato | 704 | St. Mauro | 8 | 297 | 297 | dry goat's cheese |
| 012986 | zuppa inglese | 721 | Aquavella | 1 | 400 | 270 | industrial trifle |
| 012990 | icecream mix, cream base | 727 | Casavalino | 16 | 872 | 872 | mixture of 3 types of icecream with chocolate. Industrially and locally prepared |
| | | | Pioppi | | | | |
| 012998 | gelati confezionati con biscotti | 683 | Pollica | 3 | 335 | 335 | pre-packed icecream with biscuits |
| 012999 | gelati confezionati cornetti | 682 | Pollica | 4 | 306 | 306 | pre-packed icecream |
| 015099 | sofficcini, fried | 720 | Pioppi | 6 | 297 | 297 | pasta stuffed with cheese, fried in corn oil, 'Findus' |
| <i>Oils and fats</i> | | | | | | | |
| 010901 | olive oil | 708 | St. Mauro | 8 | 310 | 310 | — |
| <i>Miscellaneous</i> | | | | | | | |
| 010382 | patatine | 702 | Casavalino | 6 | 200 | 200 | potato chips, natural, 'San Carlo' |
| 012987 | ice cream, locally prepared | 726 | Casalino-Marina | 4 | 275 | 275 | based on fruit |

Appendix 4. Detailed information on the foods collected from Finland for chemical analysis

| Food table no. | Food | Lab code | Place of sampling | Number of food items used in one mixed sample | Total weight of original sample, g | Weight after removal of non-edible parts, g | Remarks |
|-----------------------|---------------------|----------|-------------------|---|------------------------------------|---|---|
| <i>Meat</i> | | | | | | | |
| 663 | laurantai | 733 | Helsinki | 3 | 300 | 275 | cooked meat sausage |
| 664 | hot dog | 740 | Helsinki | 3 | 260 | 260 | — |
| 665 | lenkki | 731 | Helsinki | 3 | 1600 | 300 | smoked sausage |
| 668 | dry sausage | 739 | Helsinki | 3 | 400 | 245 | salami type |
| 669 | maksamakkara | 736 | Helsinki | 9 | 750 | 310 | liver sausage |
| 672 | cooked meat sausage | 730 | Helsinki | 3 | 210 | 210 | — |
| 675 | balkamin | 738 | Helsinki | 2 | 240 | 240 | dry sausage, salami type |
| <i>Dairy products</i> | | | | | | | |
| 524 | cheese, emmental | 734 | Helsinki | 2 | 460 | 285 | — |
| 525 | cheese, edam | 735 | Helsinki | 2 | 510 | 240 | — |
| 540 | ice cream | 737 | Helsinki | 3 | 830 | 265 | mixture of valio 40%, pauhig 40%, kotisaari 20% |
| <i>Oils and fats</i> | | | | | | | |
| 404 | margarine | 732 | Helsinki | 1 | 400 | 400 | 'Flora' |

