**Table e-2: Included metabolite ratio’s**

|  |  |  |
| --- | --- | --- |
| Metabolite group | Metabolite abbreviation | Ratio description |
| Ratio | XXL-VLDL-PL\_% | Phospholipids to total lipids ratio in chylomicrons and extremely large VLDL |
|  | XXL-VLDL-C\_% | Total cholesterol to total lipids ratio in chylomicrons and extremely large VLDL |
|  | XXL-VLDL-CE\_% | Cholesterol esters to total lipids ratio in chylomicrons and extremely large VLDL |
|  | XXL-VLDL-FC\_% | Free cholesterol to total lipids ratio in chylomicrons and extremely large VLDL |
|  | XXL-VLDL-TG\_% | Triglycerides to total lipids ratio in chylomicrons and extremely large VLDL |
|  | XL-VLDL-PL\_% | Phospholipids to total lipids ratio in very large VLDL |
|  | XL-VLDL-C\_% | Total cholesterol to total lipids ratio in very large VLDL |
|  | XL-VLDL-CE\_% | Cholesterol esters to total lipids ratio in very large VLDL |
|  | XL-VLDL-FC\_% | Free cholesterol to total lipids ratio in very large VLDL |
|  | XL-VLDL-TG\_% | Triglycerides to total lipids ratio in very large VLDL |
|  | L-VLDL-PL\_% | Phospholipids to total lipids ratio in large VLDL |
|  | L-VLDL-C\_% | Total cholesterol to total lipids ratio in large VLDL |
|  | L-VLDL-CE\_% | Cholesterol esters to total lipids ratio in large VLDL |
|  | L-VLDL-FC\_% | Free cholesterol to total lipids ratio in large VLDL |
|  | L-VLDL-TG\_% | Triglycerides to total lipids ratio in large VLDL |
|  | M-VLDL-PL\_% | Phospholipids to total lipids ratio in medium VLDL |
|  | M-VLDL-C\_% | Total cholesterol to total lipids ratio in medium VLDL |
|  | M-VLDL-CE\_% | Cholesterol esters to total lipids ratio in medium VLDL |
|  | M-VLDL-FC\_% | Free cholesterol to total lipids ratio in medium VLDL |
|  | M-VLDL-TG\_% | Triglycerides to total lipids ratio in medium VLDL |
|  | S-VLDL-PL\_% | Phospholipids to total lipids ratio in small VLDL |
|  | S-VLDL-C\_% | Total cholesterol to total lipids ratio in small VLDL |
|  | S-VLDL-CE\_% | Cholesterol esters to total lipids ratio in small VLDL |
|  | S-VLDL-FC\_% | Free cholesterol to total lipids ratio in small VLDL |
|  | S-VLDL-TG\_% | Triglycerides to total lipids ratio in small VLDL |
|  | XS-VLDL-PL\_% | Phospholipids to total lipids ratio in very small VLDL |
|  | XS-VLDL-C\_% | Total cholesterol to total lipids ratio in very small VLDL |
|  | XS-VLDL-CE\_% | Cholesterol esters to total lipids ratio in very small VLDL |
|  | XS-VLDL-FC\_% | Free cholesterol to total lipids ratio in very small VLDL |
|  | XS-VLDL-TG\_% | Triglycerides to total lipids ratio in very small VLDL |
|  | IDL-PL\_% | Phospholipids to total lipids ratio in IDL |
|  | IDL-C\_% | Total cholesterol to total lipids ratio in IDL |
|  | IDL-CE\_% | Cholesterol esters to total lipids ratio in IDL |
|  | IDL-FC\_% | Free cholesterol to total lipids ratio in IDL |
|  | IDL-TG\_% | Triglycerides to total lipids ratio in IDL |
|  | L-LDL-PL\_% | Phospholipids to total lipids ratio in large LDL |
|  | L-LDL-C\_% | Total cholesterol to total lipids ratio in large LDL |
|  | L-LDL-CE\_% | Cholesterol esters to total lipids ratio in large LDL |
|  | L-LDL-FC\_% | Free cholesterol to total lipids ratio in large LDL |
|  | L-LDL-TG\_% | Triglycerides to total lipids ratio in large LDL |
|  | M-LDL-PL\_% | Phospholipids to total lipids ratio in medium LDL |
|  | M-LDL-C\_% | Total cholesterol to total lipids ratio in medium LDL |
|  | M-LDL-CE\_% | Cholesterol esters to total lipids ratio in medium LDL |
|  | M-LDL-FC\_% | Free cholesterol to total lipids ratio in medium LDL |
|  | M-LDL-TG\_% | Triglycerides to total lipids ratio in medium LDL |
|  | S-LDL-PL\_% | Phospholipids to total lipids ratio in small LDL |
|  | S-LDL-C\_% | Total cholesterol to total lipids ratio in small LDL |
|  | S-LDL-CE\_% | Cholesterol esters to total lipids ratio in small LDL |
|  | S-LDL-FC\_% | Free cholesterol to total lipids ratio in small LDL |
|  | S-LDL-TG\_% | Triglycerides to total lipids ratio in small LDL |
|  | XL-HDL-PL\_% | Phospholipids to total lipids ratio in very large HDL |
|  | XL-HDL-C\_% | Total cholesterol to total lipids ratio in very large HDL |
|  | XL-HDL-CE\_% | Cholesterol esters to total lipids ratio in very large HDL |
|  | XL-HDL-FC\_% | Free cholesterol to total lipids ratio in very large HDL |
|  | XL-HDL-TG\_% | Triglycerides to total lipids ratio in very large HDL |
|  | L-HDL-PL\_% | Phospholipids to total lipids ratio in large HDL |
|  | L-HDL-C\_% | Total cholesterol to total lipids ratio in large HDL |
|  | L-HDL-CE\_% | Cholesterol esters to total lipids ratio in large HDL |
|  | L-HDL-FC\_% | Free cholesterol to total lipids ratio in large HDL |
|  | L-HDL-TG\_% | Triglycerides to total lipids ratio in large HDL |
|  | M-HDL-PL\_% | Phospholipids to total lipids ratio in medium HDL |
|  | M-HDL-C\_% | Total cholesterol to total lipids ratio in medium HDL |
|  | M-HDL-CE\_% | Cholesterol esters to total lipids ratio in medium HDL |
|  | M-HDL-FC\_% | Free cholesterol to total lipids ratio in medium HDL |
|  | M-HDL-TG\_% | Triglycerides to total lipids ratio in medium HDL |
|  | S-HDL-PL\_% | Phospholipids to total lipids ratio in small HDL |
|  | S-HDL-C\_% | Total cholesterol to total lipids ratio in small HDL |
|  | S-HDL-CE\_% | Cholesterol esters to total lipids ratio in small HDL |
|  | S-HDL-FC\_% | Free cholesterol to total lipids ratio in small HDL |
|  | S-HDL-TG\_% | Triglycerides to total lipids ratio in small HDL |
|  | TG/PG | Ratio of triglycerides to phosphoglycerides |
|  | DHA/FA | Ratio of 22:6 docosahexaenoic acid to total fatty acids |
|  | LA/FA | Ratio of 18:2 linoleic acid to total fatty acids |
|  | FAw3/FA | Ratio of omega-3 fatty acids to total fatty acids |
|  | FAw6/FA | Ratio of omega-6 fatty acids to total fatty acids |
|  | PUFA/FA | Ratio of polyunsaturated fatty acids to total fatty acids |
|  | MUFA/FA | Ratio of monounsaturated fatty acids to total fatty acids |
|  | SFA/FA | Ratio of saturated fatty acids to total fatty acids |
|  | ApoB/ApoA1 | Ratio of apolipoprotein B to apolipoprotein A-I |
| Abbreviations: HDL=High-density lipoprotein, IDL=Intermediate-density lipoprotein, LDL=Low-density lipoprotein, VLDL=Very-low-density lipoprotein. | | |