S4 Table. The formula of 11 factors applying for factor analysis

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| Components | calculation |
| Factor 1 | (0.788 \* C16:1OH) + (0.772 \* C18:1) + (0.76 \* C18) + (0.754 \* C18:1OH) + (0.745 \* C16) + (0.738 \* C16OH) + (0.704 \* C14) + (0.683 \* C16:1) + (0.665 \* C18OH) + (0.645 \* C14OH) |
| Factor 2 | (0.926 \* C8) + (0.924 \* C10:1) + (0.922 \* C10) + (0.804 \* C14:2) + (0.756 \* C12) + (0.754 \* C14:1) + (0.740 \* C6) + (0.602 \* C5DC) + (0.431 \* C4) + (0.476 \* C8:1) |
| Factor 3 | (0.787 \* Tyrosin) + (0.773 \* Methionine) + (0.737 \* Leucine) + (0.712 \* Tryptophan) + (0.656 \* Phenylalanine) + (0.503 \* Threonine) |
| Factor 4 | (0.909 \* Lysine) + (0.886 \* Glutamine) + (0.687 \* Histidine) + (0.662 \* Asparagine) |
| Factor 5 | (0.861 \* C5:1) + (0.747 \* C5OH) + (0.561 \* C5) + (0.472 \* C3DC) |
| Factor 6 | (0.446 \* C5) + (0.645 \* C3) + (0.638 \* C0) + (0.485 \* C4) + (0.428 \* Ornitine) |
| Factor 7 | (0.814 \* Glycine) + (0.708 \* Serine) |
| Factor 8 | (0.643 \* Proline) + (0.632 \* Alanine) |
| Factor 9 | (0.593 \* C4OH) + (0.560 \* C2) + (0.555 \* C8:1) |
| Factor 10 | (0.649 \* C18:2OH) + (0.645 \* Glutamic acid) + (0.468 \* Aspartic acid) |
| Factor 11 | (0.759 \* Citrulline) + (0.604 \* Arginine) |