Table S1: Suppliers of reference standards used for GC-MS analysis.

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| Standard | Supplier |
| Alanine | Sigma-Aldrich Chemie GmbH(Munich, Germany) |
| Aspartic acid |
| Cysteine |
| Glutaminic acid |
| Histidine |
| Iso-leucine |
| Leucine |
| Lysine |
| Myo-isonitol |
| Pinitol |
| Proline |
| Ribitol |
| Salicylic acid |
| Threonine |
| Tryptophan |
| Valine |
| Xylose |
| Arginine | SERVA Electrophoresis GmbH (Heidelberg, Germany) |
| Phenylalanine |
| Glycine | Carl Roth GmbH + Co. KG (Karlsruhe, Germany) |
| Methionine |
| Serin |
| Malic acid |
| Succinic acid  |
| Arabinose |
| Sucrose |
| Asparagine | Merck KGaA(Darmstadt, Germany) |
| Mannitol |
| Glucose |
| Galactose |
| Sorbitol | AppliChem GmbH (Darmstadt, Germany) |
| Glutamine |
| Citric acid | Acros Organics (Thermo Fisher Scientific, Geel, Belgium) |