

**Table S2: Compounds common to all dataset**

Compounds	Classification
pyruvate	Acids
L-alanine	Amino Acids
L-cysteine	Amino Acids
L-glutamate	Amino Acids
L-glutamine	Amino Acids
L-serine	Amino Acids
D-ribose-5-phosphate	Carbohydrates
coenzyme A	Cofactors
diphosphate	Ions
phosphate	Ions
H <sup>+</sup> (PROTON)	Ions
AMP	Nucleosides
ADP	Nucleosides
ATP	Nucleosides
formate	Unclassified-Compounds
H <sub>2</sub> O (WATER)	Unclassified-Compounds