Table S2 The related information of chemicals used in the research

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| Chemicals | Related information |
| Puriety | Supplier | City | Country |
| Gallic acid (GA) | ≥99% | Sigma Aldrich | Shanghai | China |
| (+)-catechin (C) | ≥99% | Sigma Aldrich | Shanghai | China |
| (-)-epicatechin (EC) | ≥99% | Sigma Aldrich | Shanghai | China |
| (-)-gallocatechin (GC) | ≥99% | Sigma Aldrich | Shanghai | China |
| (-)-epicatechin gallate (ECG) | ≥99% | Sigma Aldrich | Shanghai | China |
| (-)-epigallocatechin gallate (EGCG) | ≥99% | Sigma Aldrich | Shanghai | China |
| (-)-gallocatechin gallate (GCG) | ≥99% | Sigma Aldrich | Shanghai | China |
| (-)-epigallocatechin (EGC) | ≥99% | Sigma Aldrich | Shanghai | China |
| caffeine (CAFF) | ≥99% | Sigma Aldrich | Shanghai | China |
| L-Glutamine | ≥99% | Sigma Aldrich | Shanghai | China |
| L-Tryptophan | ≥99.5% | Sigma Aldrich | Shanghai | China |
| D-glucose (D-Glc) | >99.5% | Aladdin Chemicals | Shanghai | China |
| L-Theanine (L-thea) | >99% | Yuanye Biotechnology Co., Ltd. | Shanghai | China |
| Acetonitrile | Spectro grade | Tedia Hing Purity Solvents Co., Ltd. | Shanghai | China |
| Acetic acid | ≥99.7%, CNW | ANPEL Laboratory Technologies Inc. | Shanghai | China |
| Methanol | Analytical grade | TediaHing Purity Solvents Co., Ltd. | Shanghai | China |
| Sulfuric acid | Analytical grade | West Long Chemical Co., Ltd. | Guangzhou | China |
| Hydrochloric acid | Analytical grade | Suyi Chemical Reagents Co., Ltd. | Shanghai | China |
| Phenol | Analytical grade | Zhanwang Chemical Reagents Co., Ltd. | Wuxi | China |
| Sodium sulfate | Analytical grade | Sinopharm Chemical Reagent Co., Ltd. | Shanghai | China |
| Sulfosalicylic acid | ≥99.0% | Tianjin Guangfu Technology Development Co., Ltd. | Tianjin | China |
| Amino acids standards (mixed with L-Alanine, L-Arginine, L-Aspartic acid, L-Cystine, L-Glutamic acid, Glycine, L-Histidine, L-Isoleucine, L-Leucine, L-Lysine, L-Methionine, L-Phenylalanine, L-Proline, L-Serine, L-Threonine, L-Serine, L-Threonine, L-Tyrosine, L-Valine) | Analytical grade | Sigma Aldrich | Shanghai | China |