# Abbreviations

| | |
|---|---|
| Amp | Ampicillin |
| ATP | Adenosine triphosphate |
| bp | base pair (s) |
| CAT | Catalase |
| DMT1 | Divalent Metal Transporter |
| DNA | Deoxyribonucleic acid |
| *Ec*N | *E. coli* Nissle 1917 |
| Fe Def | Iron Deficient |
| FOS | Fructose Oligosaccharide |
| GFP | Green fluorescent protein |
| *glf* | Glucose Facilitator Protein |
| GLP-1 | Glucagon-like polypeptide |
| GPx | Glutathione Peroxidase |
| GSH | Reduced Glutathione |
| Hb | Hemoglobin |
| HDL | High Density Lipoprotein |
| HFCS | High fructose corn syrup |
| IPTG | Isopropyl -D thio galactopyranoside |
| kb | kilobase (s) |
| kDa | KiloDalton |
| LAB | Lactic acid Bacteria |
| LB | Luria broth |
| LDL | Low Density Lipoprotein |
| LPO | Lipid Peroxidation |
| LPS | Lipopolysaccharide |
| mM/M | Millimolar/Molar |
| *mtl*K | Mannitol dehyrogenase |
| ng | Nanogram |
| nm | Nanometer |
| OD | Optical Density |

| | |
|---|---|
| PBS | Phosphate Buffer Saline |
| PCR | Polymerase Chain Reaction |
| *pqq* | pyrroloquinoline quinone |
| RBC | Red Blood Cells |
| RE | Restriction Endonuclease |
| ROS | Reactive Oxygen Species |
| rpm | Revolutions per minute |
| SCFA | Short Chain Fatty Acid |
| SOD | Superoxide Dismutase |
| *vgb* | Vitreoscilla Hemoglobin |

Note: The full forms of several rarely used abbreviations have been described within the text