**Supplementary File 1**

List of selection agents used in evolution experiments

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| **Selection** | **Compound** | **Concentration** | **Type** |
| Mitochondrial stress | Paraquat | 400 µg/mL | Mitochondrial producer |
| Arsenic (III) stress | Arsenite (NaAsO2) | 3 mM | Toxic metalloid |
| Rapamycin stress | Sirolimus | 0.8 µg/mL | TOR-inhibitor |
| Citric Acid stress | Citric Acid | 62.5 mg/mL | Weak organic acid |
| Glycine use | L-Glycine | 160.86 mg/mL (30 mg N/mL) | Nitrogen source |
| Citrulline use | L-Citrulline | 125.14 mg/mL (30 mg N/mL) | Nitrogen source |
| Tryptophan use | L-Tryptophan | 218.82 mg/mL (30 mg N/mL) | Nitrogen source |
| Isoleucine use | L-Isoleucine | 281.1 mg/mL (30 mg N/mL) | Nitrogen source |