

Table 1 Composition of *in vivo*-like assay media for various organisms.

| Component | <i>S. cerevisiae</i> [1] | <i>L. lactis</i> [2] | <i>E. coli</i> [3] | <i>T. brucei</i> [4] |
|---|--------------------------|----------------------|--------------------|----------------------|
| K ⁺ | 300 mM | 438 mM | 200 mM | 100 mM |
| Phosphate | 50 mM | 1 mM | 25 mM | 10 mM |
| Glutamate | 245 mM | 400 mM | 10 mM | |
| Na ⁺ | 20 mM | 50 mM | 10 mM | 15 mM |
| Mg ²⁺ | 2 mM (free) | 2 mM | 5 mM | 10 mM |
| Ca ²⁺ | 0.5 mM | 2.04 μM | 1 μM | |
| Sulfate | 2.5-10 mM | 2 mM | 5 mM | |
| Cl ⁻ | | 50 mM | 150 mM | 120 mM |
| HEPES | | 100 mM | | |
| Co ²⁺ | | 0.107 μM | | |
| Cu ²⁺ | | 0.120 μM | | |
| Mn ²⁺ | | 2.021 μM | | |
| Zn ²⁺ | | 0.104 μM | | |
| Fe ²⁺ | | 2.012 μM | | |
| (NH ₄) ₆ Mo ₇ O ₂₄ | | 0.024 μM | | |
| pH | 6.8 | 7.5 | 7.5 | 7.0 |