

Table S1 Composition of CS2 medium

| | stock conc. | final conc. | 1000 ml |
|--|-------------|-------------|---------|
| Sterile MilliQ water | | | 710ml |
| Solution A | | | 100ml |
| Na ₂ HPO ₄ | 71.4 g/L | | |
| KH ₂ PO ₄ | 30 g/L | | |
| (NH ₄) ₂ SO ₄ | 20 g/L | | |
| Solution B-1 | | | 10 ml |
| MgSO ₄ · 7H ₂ O | 5 g/L | 50 mg/L | |
| MnSO ₄ · 5H ₂ O | 0.5418 g/L | 5.4 mg/L | |
| Solution B-2 | | | 10 ml |
| FeSO ₄ · 7H ₂ O | 0.28 g/L | 2.8 mg/L | |
| Solution C | | | 25 ml |
| 40% Glucose | 40%(w/v) | 1% | |
| Solution D | | | 10 ml |
| Biotin | 10 mg/L | 0.1 mg/L | |
| Nicotinic acid | 200 mg/L | 2 mg/L | |
| D-Panthenic acid | 200 mg/L | 2 mg/L | |
| Pyridoxine hydrochloride | 400 mg/L | 4 mg/L | |
| Riboflavin | 200 mg/L | 2 mg/L | |
| Thiamine hydrochloride | 200 mg/L | 2 mg/L | |
| Adenine Solution | | | 50 ml |
| Adenine · 1/2H ₂ SO ₄ | 300 mg/L | 15mg/L | |
| Guanine Solution* | | | 50 ml |
| Guanine | 592 mg/L | 30mg/L | |
| Trace elements Solution | | | 10 ml |
| CaCl ₂ | 109.94 mg/L | ** | |
| 1M ZnSO ₄ | 105.2 ul | 0.17mg/L | |
| 100mM CuSO ₄ | 504 ul | 0.08mg/L | |
| CoCl ₂ · 6H ₂ O | 12 mg/L | 0.12mg/L | |
| Na ₂ MoO ₄ · 2H ₂ O | 12 mg/L | 0.12mg/L | |
| Amino Acids Solution *** | | | 20 ml |
| Glutamine Solution | | | 10 ml |
| L-Glutamine | 29.2 g/L | 0.29 g/L | |
| Solution Ca | | | 0.14 |
| CaCl ₂ | 55.4987 g/L | 8.9mg/L** | |

* in 0.05N NaOH

** total

*** RPMI1640 amino acids solution (50X) (Sigma, R7131)