# Appendix A. Supplementary material

Figure 11. Observed pH trend during *Gonium pectorale* cultivation period for 15 days in TAP medium.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Stock solution** | **Amount (mL/2L)** | **Component** | **Amount (g/L)** | **Concentration (mM)** |
| **Beijerinck's Solution** | **100** | **NH4Cl** | **8** | **7.5** |
| **CaCl2 ·2H2O** | **1** | **0.35** |
| **MgSO4 ·7H2O** | **2** | **0.4** |
| **Phosphate Buffer Stock Solution** | **17** | **Na2HPO4** | **11.62** | **0.69** |
| **KH2PO4** | **7.26** | **0.45** |
| **Hunter's Trace Stock Solution** | **2** | **Na2 EDTA·2H2O** | **50** | **0.134** |
| **ZnSO4 ·7H2O** | **22** | **0.077** |
| **H3BO3** | **11.4** | **0.184** |
| **MnCl2 ·4H2O** | **5.1** | **0.026** |
| **FeSO4·7H2O** | **5** | **0.018** |
| **CoCl2·6H2O** | **1.6** | **0.007** |
| **CuSO4·5H2O** | **1.16** | **0.005** |
| **(NH4)6Mo7024 ·4H2O** | **1.1** | **0.0008** |
| **Tris Acetate Stock Solution** | **20** | **Trisma Base** | **242** | **20** |
| **Glacial Acetic Acid** | **100** | **17** |

Table 5. Tris-Acetate-Phosphate medium recipe for 2 Liter volume.

Table 6. Modified Bold 3N medium recipe.

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Amount (mL/L)** | **Stock solution concentration (g/400ml)** | **Concentration (mM)** |
| **NaNO3** | **30** | **10** | **8.82** |
| **CaCl2·2H2O** | **10** | **1** | **0.17** |
| **MgSO4 · 7H2O** | **10** | **3** | **0.3** |
| **K2HPO4** | **10** | **3** | **0.43** |
| **KH2PO4** | **10** | **7** | **1.29** |
| **NaCl** | **10** | **1** | **0.43** |
| **P-IV Metal Solution** | **6** |  |
| **Soilwater: GR+ Medium** | **40** |
| **Vitamin B12** | **1** |
| **Biotin Vitamin Solution** | **1** |
| **Thiamine Vitamin Solution** | **1** |