1.0E-6 Glutathione + 1.0E-6 heme + 1.0E-6 SAM + 1.0E-6 FAD + 1.0E-6 Riboflavin + 1.0E-6 CoA + 1.0E-6 THF + 1.0E-6 FMN + 1.0E-6 ubiquinone + 1.0E-6 NADP + 1.0E-6 thiamine + 1.0E-6 NAD + 1.0E-6 Pyridoxal => 1.0 e-Cofactor

0.32758635541403475 dCTP + 0.5495163504158435 dTTP + 0.7182197273756837 dATP + 0.4519690098334078 dGTP => 3.222870606625026 PPI + 3.2228706066250266 e-DNA

0.2945386344550722 L-Arginyl-tRNA(Arg) + 0.42544515921493326 L-Threonyl-tRNA(Thr) + 0.4289819204312258 L-Seryl-tRNA(Ser) + 0.3676815836332122 L-Phenylalanyl-tRNA(Phe) + 0.16437382066067102 L-Histidyl-tRNA(His) + 0.4704303819460547 L-Alanyl-tRNA + 0.29033764004729873 Glutaminyl-tRNA + 0.7249996526732314 L-Leucyl-tRNA + 0.6185635222022403 L-Isoleucyl-tRNA(Ile) + 0.2995246489521635 L-Tyrosyl-tRNA(Tyr) + 0.589025525764542 L-Glutamyl-tRNA(Glu) + 0.3606710652849841 L-Asparaginyl-tRNA(Asn) + 0.08230557377466524 L-Tryptophanyl-tRNA(Trp) + 0.22041807618946482 L-Methionyl-tRNA + 0.5442533017694058 L-Valyl-tRNA(Val) + 0.5807960715930256 L-Lysyl-tRNA + 0.06296284952834777 L-Cysteinyl-tRNA(Cys) + 0.45401958863876357 Glycyl-tRNA(Gly) + 0.3596934247185034 L-Aspartyl-tRNA(Asp) + 0.2568891977830885 L-Prolyl-tRNA(Pro) => 0.29033764004729873 tRNA(Gln) + 0.589025525764542 tRNA(Glu) + 0.5807960715930256 tRNA(Lys) + 0.7249996526732314 tRNA(Leu) + 0.4704303819460547 tRNA(ala) + 0.45401958863876357 tRNA(Gly) + 0.6185635222022403 tRNA(Ile) + 8.884301961702732 H2O + 0.5442533017694058 tRNA(Val) + 0.16437382066067102 tRNA(His) + 0.3596934247185034 tRNA(Asp) + 0.2568891977830885 tRNA(Pro) + 0.2995246489521635 tRNA(Tyr) + 0.06296284952834777 tRNA(Cys) + 8.884301961702732 e-Protein + 0.08230557377466524 tRNA(Trp) + 0.22041807618946482 tRNA(Met) + 0.2945386344550722 tRNA(Arg) + 0.4289819204312258 tRNA(Ser) + 0.3606710652849841 tRNA(Asn) + 0.3676815836332122 tRNA(Phe) + 0.42544515921493326 tRNA(Thr)

0.542553238866629 UTP + 0.5349015560372429 GTP + 0.4891840208785445 ATP + 0.4333438830977867 CTP => 3.108324996362458 PPI + 3.108324996362458 e-RNA

0.148 e-Carbohydrate + 0.531 e-Protein + 0.023 e-DNA + 0.061 e-Cofactor + 0.162 e-Lipid + 0.075 e-RNA => 1.0 e-Biomass

|  |  |
| --- | --- |
| **Biomass content** | **%(g/g DW)** |
| DNA | 0.023 |
| RNA | 0.075 |
| Protein | 0.531 |
| Carbohydrate | 0.148 |
| Lipid | 0162 |
| Cofactor | 0.061 |