# List of ingredients

|  |  |  |
| --- | --- | --- |
| compound\_id | compound | compound\_type |
| 0 | water | simple |
| 1 | Glucose | simple |
| 2 | CaCO3 | simple |
| 3 | K2HPO4 | simple |
| 4 | MgSO4 x 7 H2O | simple |
| 5 | NaCl | simple |
| 6 | L-Asparagine | simple |
| 7 | Glycerol | simple |
| 8 | Yeast extract | complex |
| 9 | Starch | complex |
| 10 | Beef extract | complex |
| 11 | N-Z amine | complex |
| 12 | Peptone | complex |
| 13 | Malt extract | complex |
| 14 | Oatmeal | complex |

# Formulations

Each media formulation will contain a mixture of up to 6 ingredients and can be defined by a six-number identifier defined by their component ids. For example, ISP2 media can be defined by the following 0-1-2-8-13-0. Water here is only as a substitute place holder because in others there may be some component in its place.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 8 | 13 | 0 |
| water | Glucose | CaCO3 | Yeast extract | Malt extract | water |

The combinations are made by combining up to 3 from each combining category (simple and complex) and further combining each category in all combinations.

# Assembly

Assembly of formulations can be done in 96 deep-well (1mL working volume) or 384 (80µL). Assembling into 96-well plates gives 42 plates. Whereas it can be assembled into 11 384-well plates, however, the culture volume and it’s subsequent extraction might get difficult.

*… example plates in the following pages..*