**Summarized list of all experiments**

Equipment:

\* We will bring it by ourselves

I. The experiments of Nanoflagellate and bacteria community (for each station)

II. The incubation experiments (for 3 stations in each transect lines, totally 18 stations)

∆ needs to match

|  |  |  |  |
| --- | --- | --- | --- |
| Mark | Item | Amount | Exp. |
|  | 30 meters Silicone tube 1 for Glo-Flo or Niskin petcock assy | 1 | I, II |
|  | Silicone tubes 2 for pump rotate∆ | 8 tubes | 4 for I,  4 for II |
|  | Silicone tubes 3 for pump to filter holder∆ | 8 tubes | 4 for I,  4 for II |
|  | peristaltic pump (with LS25 tube X 8 (2 for backup)) ∆ | 4 | 2 for I,  2 for II |
|  | Filter holder (to hold the 142 mm filter) | 5 sets | 3 sets for I, 2 sets for II |
| \* | Silicone gel for pump-tube | 1 or 2 bottles | I, II |
|  | 100 L dark incubation tanks | 8 | II |
|  | 20 L cubitainers | 24 | II |
|  | 100 mL plastic bottles | 160 | II |
|  | 10-20 Liter Carboy/ Water bottles (polycarbonate bottle) | 6 | I |
|  | 20L carboys | 10 | 6 for I, 4 for II |
|  | 2L carboys | 32 | II |
|  | 20 L plastic buckets | 2 | II |
|  | 100 μm Norpac net | 5 | II |
|  | 50 μm Norpac net | 15 | II |
|  | Flowmeter for Norpac | 2 | II |
|  | Cod End for Norpac | 5 | II |
|  | Alcohol thermometer | 2 | II |

Filter:

|  |  |  |  |
| --- | --- | --- | --- |
| Mark | Item | Amount | Exp. |
|  | 80 μm sieves (diameter 50 cm) for reverse filtration | 1 | II |
|  | 150 μm sieves (diameter 50 cm) for reverse filtration | 1 | II |
| \* | 2m x 2m 200 μm nylon net | 2 | II |
| \* | 2m x 2m 50 μm nylon filter | 2 | II |
| \* | 20 μm nylon net | many | I and II |
| \* | 50 um hand-made sieve | 2 | II |
| \* | 20 μm sieve |  | II |
| \* | 1.2 μm polycarbonate filters (142 mm in diameter) | 4 boxes | 3 boxes for I, 1 box for II |
| \* | 0.2 μm polycarbonate filters (142 mm in diameter) | 4 boxes | 3 boxes for I, 1 box for II |

Medicine:

|  |  |  |  |
| --- | --- | --- | --- |
| Mark | Item | Amount | Exp. |
|  | 50 % Glutaraldehyde (50ml sample with final concentration 1%) | 700 mL | 400 mL for I; 300 mL for II |
|  | 10% Paraformaldehyde (2 ml sample with final concentration 0.2%) | 15 mL x 5 tubes | 3 tubes for I, 2 tubes for 2 |
|  | 40% formalin or  10% formalin | 3 L (140 mL per set)  12 L (560 mL per set) | II |
|  | 75% Ethanol | 2.5 L | 2 for I, 0.5 for II. |
|  | Liquid nitrogen | ??? | I, II |

Tools:

|  |  |  |  |
| --- | --- | --- | --- |
| Mark | Item | Amount | Exp. |
|  | Sharpie marker | 10 | I, II |
|  | Electrical Tapes | 8 | I, II |
|  | Container box | 5 | 5 for I |
|  | 3.6 mm(width) x 150 mm cable tie/zip tie | 30 | 20 for I,  10 for II |
|  | Big cable tie/zip tie | 30 | 20 for I,  10 for II |
|  | 75-150 square foot roll Aluminum foil | 2-3 pack | I, II |
|  | Curved extra fine tip tweezer | 6 | 4 for I, 2 for II. |
|  | Scissors | 3 |  |
|  | 5 mL Cryogenic tubes | 200 | 200 for I |
|  | 2 mL Cryogenic tubes | 1160 | 200 for I, 960 for II |
|  | 50 mL Centrifuge tubes | 360 | 200 for I, 160 for II |
|  | 3 or 5 mL Plastic dropper | 20 | 10 for I, 10 for II |
|  | 1000uL Pipette | 3 | I |
|  | 20uL Pipette | 3 | I |
|  | 1000uL tip | 6 boxes | I |
|  | 20uL tip | 6 boxes | I |
|  | 100 mL plastic bottles | 160 (8 per set) | II |
| \* | Kimwipes Kimtech 11 x 21cm (280 papers/box) | 1 | II |
|  | Wash bottle | 3 | II |
|  | 200-400 mL Spray bottle | 1 | I |
| \* | Cleaning Sponge Scouring Pad | 2 | II |
|  | Pressure sprayer (<https://tg.pe/rJu>) | 2 | II |
|  | Labels | 200 | 200 for I |
|  | Basket (Market type) | 1 | I |
|  | Metal rank for 50mL x 9 tubes | 1 | I |
|  | Latex gloves (size M) | 2 boxes | I |
|  | Neoprene rubber gloves (size M) for preventing gluta | 1 pair | I |