

Technical Information

TAP Basal Solution (10X)

Product Code: PL1038

Composition**

Ingredients	gm/lit
Sodium nitrate	2.5
Calcium chloride dihydrate	0.636
Magnesium sulphate heptahydrate	0.75
Potassium dihydrogen phosphate	2.336
Sodium chloride	0.25
EDTA disodium salt	0.5
Boric acid	2.86
Manganese chloride tetrahydrate	1.81
Zinc sulphate heptahydrate	0.222
Sodium molybdate dihydrate	0.39
Copper sulphate pentahydrate	0.079
Cobalt nitrate hexahydrate	0.049

Principle And Interpretation

To prepare Tap Basal solution 10X or standard for algal media, multiply standard 1X component weights by 10, dissolve them sequentially in distilled water, and adjust the final volume.

Directions

- Measure 800 ml of distilled or deionized water in a clean glass beaker.
- Weigh each chemical salts accurately on a calibrated balance.
- Add the salts one by one to the water while stirring continuously with a magnetic stirrer until fully dissolved.
- Add trace element or EDTA solution last to prevent metal precipitation.
- Add more distilled water until the total final volume reaches exactly 1000 ml (1L).
- Sterilize via filter sterilization (0.22µm)

Quality Control

Appearance : Colourless clear solution.

pH : 3.5 – 4.5 (10X)

Sterility : No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Storage and Shelf Life

Store the basal stock solution at 2-8°C away direct light. If possible, the entire content of each bottle should be used immediately after opening or else the unused portion should be stored at the given temperature. Avoid contaminating the liquid. Use before the expiry date.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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