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## Arthrospira platensis Growth Media Stock Solution Preparation

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**Protocol status:** Working

**We use this protocol and it's working**

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## Abstract

The purpose of this protocol is to prepare a growth media for spirulina (*Arthrospira platensis*). *Arthrospira platensis* is a cyanobacterium species usually found in alkali environments rich with carbonate and bicarbonate concentrations. *Arthrospira platensis* cultures thrive in media with a pH between 9 and 10, with high bicarbonate concentrations, inorganic salts, and trace Nutrients.

## Protocol materials

F/2 medium **Catalog #MKK50L**In [2 steps](#)

Distilled Water

In [2 steps](#)Arthrospira Growth Media Bulk Salts Alkaline **Algae Research Supply Catalog #ASAp-00050**In [2 steps](#)

## Before start

Ensure you are working in a sterile aseptic environment



## Materials Needed

|     |                                  |    |
|-----|----------------------------------|----|
| 1   | Gather Materials                 | 1m |
| 1.1 | 500 ml media bottle              | 1m |
| 1.2 | magnetic stir bar                | 1m |
| 1.3 | Weight boat                      | 1m |
| 1.4 | P1000 pipettor                   | 1m |
| 1.5 | P1000 pipette tips               | 1m |
| 1.6 | Spatula                          | 1m |
| 1.7 | Magnetic stir bar remover magnet | 1m |
| 1.8 | Roll of labeling tape            | 1m |

## Equipment Needed

|     |                  |    |
|-----|------------------|----|
| 2   | Gather Equipment | 1m |
| 2.1 | UV Sanitizer     | 1m |

## 2.2 Magnetic Stirrer

1m

## Reagents Needed

### 3 Gather Reagents

1m

#### 3.1 Distilled Water **Contributed by users**

1m

#### 3.2 Arthrospira Growth Media Bulk Salts Alkaline **Algae Research** **Supply Catalog #ASAp-00050**

1m

#### 3.3 F/2 medium **Contributed by users** **Catalog #MKK50L**

1m

## Methods

28m

### 4 Prepare Media

1m

#### 4.1 Fill the 500 mL media bottle with 500 mL of Distilled Water **Contributed by users**


1m

#### 4.2 Add the magnetic stir bar to the media bottle and turn on the mixer to medium

1m

#### 4.3 Add 7.5 g of

1m

 Arthrospira Growth Media Bulk Salts Alkaline **Algae Research**  
**Supply Catalog #ASAp-00050**

to the media bottle

#### 4.4 Add 1.0 mL of F/2 medium **Contributed by users** **Catalog #MKK50L** to the media bottle

1m



- 4.5 Allow the media bottle to stir until all the salts have dissolved (You may need to move the media bottle around so that the stir bar agitates all the settled nutrient salts) 10m
- 4.6 Using a magnet, remove the magnetic stir bar from the media bottle 1m
- 4.7 Place the media bottle in UV sanitizer for 10 minutes uncapped, with cap facing up 10m
- 4.8 First place cap on media bottle, Remove the media bottle from the UV sanitizer 1m
- 4.9 Label media bottle "Spirulina Culture Media" and date 1m