

# Preparation of NC64A “Ghosts”

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## Abstract

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## Guidelines

### MATERIALS:

- 1) NC64A *chlorella*, pelleted (fresh cells preferred)
- 2) 70% methanol
- 3) Centrifuge tubes, corex or polypropylene
- 4) 50 mM Tris-HCl, pH 7.8

## Protocol

### Step 1.

Centrifuge the NC64A *chlorella* in the Sorvall centrifuge at 5,000 rpm, 5 min, 4°C if fresh cells are used.

 DURATION

00:05:00

### Step 2.

If frozen cells are used, thaw the pellets and suspend with 50 mM Tris-HCl, pH 7.8. Centrifuge the cells in the Sorvall SS34 rotor or HB-4 rotor at 5,000 rpm, 5 min, 4°C.

 DURATION

00:05:00

### Step 3.

Decant the supernatants.

### Step 4.

Add 10-15 mL of 70% methanol to the *chlorella* pellets and resuspend the cells completely.

### Step 5.

Centrifuge the cells in the Sorvall SS34 rotor or HB-4 rotor at 5,000 rpm, 5 min, 4°C.

 DURATION

00:05:00

### Step 6.

Decant the supernatants.

### Step 7.

Repeat the 70% methanol washes 5-6 times or until the desired amount of pigment has been

removed from the cells.

**Step 8.**

Store the *chlorella* “ghosts” at 4°C in 70% methanol.