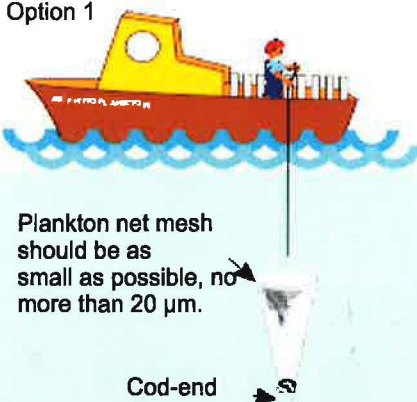


## PHYTOPLANKTON SAMPLE PREPARATION

**Materials Needed:** 20  $\mu\text{m}$  Plankton net, large bucket or hose, rope, 100  $\mu\text{m}$  and 20  $\mu\text{m}$  filtration, squeeze bottle, plastic dispenser, clean vials, 0.1M acetic acid

**Collection:** Collect phytoplankton using any one of the three options below.


**1 Option 1**



Plankton net mesh should be as small as possible, no more than 20  $\mu\text{m}$ .

Cod-end

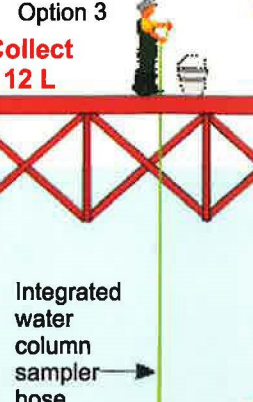
**Option 2**



Bucket

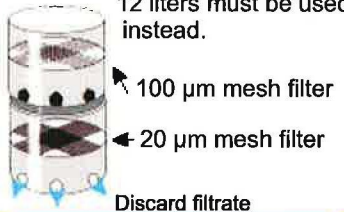
**Option 3**

**Collect 12 L**



Integrated water column sampler hose

**2** Filter contents of cod-end (approximately 300 mL). When using a bucket or hose 12 liters must be used instead.

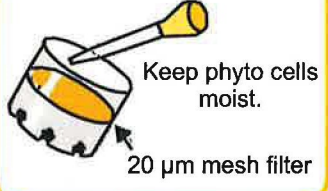


100  $\mu\text{m}$  mesh filter

20  $\mu\text{m}$  mesh filter

Discard filtrate


**3** Hold 20  $\mu\text{m}$  mesh filter at an angle and squirt gently with sea water so that cells can collect to the side.



Keep phyto cells moist.

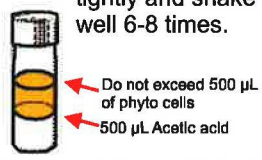
20  $\mu\text{m}$  mesh filter

**4** Collect the concentrated phyto cells with a plastic dispenser and transport into a clean vial.



### Extraction:

**1** Add phyto cells to 500  $\mu\text{L}$  of 0.1 M Acetic acid so that the total volume does not exceed 1 mL. Cap tightly and shake well 6-8 times.




Do not exceed 500  $\mu\text{L}$  of phyto cells

500  $\mu\text{L}$  Acetic acid

**The sample is ready to test**

**2** For future use keep the extract capped tightly. Store at 4 - 5°C (39 - 41°F).



Clean all equipment with 5% bleach and rinse well with tap water to avoid contaminating next sample.

Refer to Scotia Rapid Test Instruction Sheet to perform test.

**SCOTIA RAPID TESTING LTD.**

4654 Route #3, Chester Basin, Nova Scotia, Canada B0J 1K0 [www.scotiarapidtesting.ca](http://www.scotiarapidtesting.ca) • Tel: (902) 275-5104 • Fax: (902) 275-2242

SRT08Apr14-503



# PSP RAPID TEST

A qualitative lateral flow screen for the detection of PSP toxins in shellfish

Batch 40000-09Sep16

PHYTO EXTRACTION

Field Method

Materials Needed: All materials needed are provided in the kit

**1** •Check Expiry Date (contact if test is expired)  
•Check Desiccant Pouch:  
Blue = OK  
Pink = Do not use test

Yellow  
DISPENSER  
TEST STRIP  
DESICCANT POUCH  
BUFFER (see MSDS for precautions)

**2** Before using, hold buffer vial as shown, 1 inch above table.

Tap 3 times on a table to get the liquid from the lid to the vial.

1"  
Table

**3** Add 100  $\mu$ L of phyto extract (to black line of dispenser) to the vial in step 2.

Mix by inserting tip into liquid and pipetting at least 3 times.

1 2 3  
Yellow cap

**4** Place 100  $\mu$ L of the mixture into sample well "S".

**DO NOT REUSE DISPENSERS**

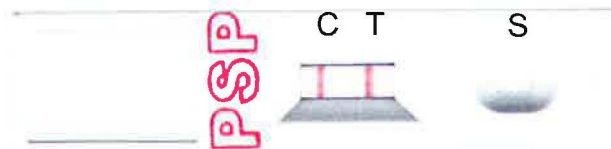
**5** Read your results between 35 minutes and one hour. Turn this page for C & T line interpretation.

## Test Interpretation

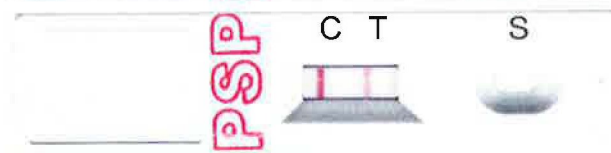
Place your cassette in the blank space indicated below.  
Interpret the test result as follows:

- 1) If your T-line is darker than the Positive result below, the test is **Negative**.
- 2) If your T-line is equal to or fainter than the Positive result below, the test is **Positive**. When in doubt, consider the test **Positive**. Positive results should be confirmed with analytical testing
- 3) If your C line is equal to or fainter than the invalid test below, your test is invalid. Repeat the assay with a new test. If the same result occurs, your sample contains an unknown agent that inhibits the tests reaction; an alternative testing method should be used.

A **Negative** Result



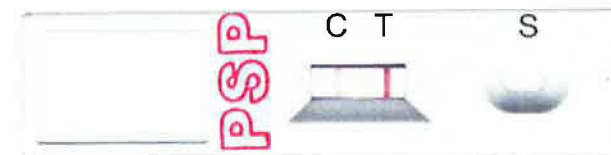
A **Positive** Result



Be Safe!

We Recommend Placing Your  
Cassette Here for Comparison  
Purposes

Invalid Test



Dispose of used test in the trash or keep for a permanent record.

If you need assistance, contact us at [techsupp@scotiarapidtesting.ca](mailto:techsupp@scotiarapidtesting.ca)  
Technical Assistance:

- 1) Scan or photograph your problem cassettes before they completely dry.
- 2) Save and refrigerate your extract.
- 3) Call for shipping instructions before sending us extracts or tissue.

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