

MLA015 Alga Chamber

Accessories Series

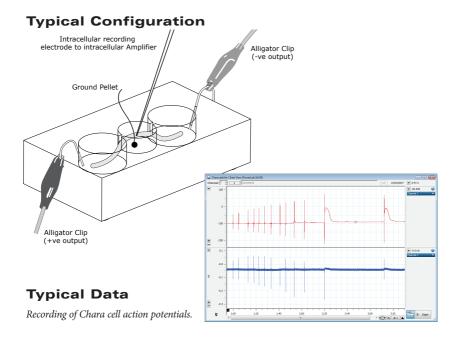
Description

The Alga Chamber is ideal for use in student laboratories in demonstrating and investigating action potentials using freshwater alga, *Chara corallina*. The unit has two chambers with in-built stimulating electrodes and a central recording chamber.



Alga, Chara corallina preparation

The Chara is placed across all three chambers. Stimulating electrodes are located in the two end chambers and are connected to the positive and negative outputs of the PowerLab. A ground pellet is placed in the central chamber with the algal cell in the central chamber isolated by placing Vaseline in the grooves. A relatively short and blunt intracellular glass electrode is used to penetrate the cell located in the central chamber. When electrically stimulated the algal cell fires action potentials which can be measured using an intracellular amplifier (ie. AM3100). Using these cells illustrates the wide taxonomic distribution of voltage-gated channels and excitability. Action potentials generated are long-lasting and illustrate absolute and relative refractory periods.



Caution

Read "Statement of Intended Use" on our website or in "Getting Started with PowerLab" before use.

Application

The MLA015 Alga Chamber is ideal for conducting experiments investigating the properties of:

- · voltage-gated channels
- · cell excitability
- absolute and relative refractory periods

Cleaning and Care

- The alga chamber can be immersed and should be washed with warm water and rinsed with deionized water after use.
- · Dry thoroughly
- Avoid cleaning with organic solvents.
- Do not immerse any of the cables.

Specifications

Number of chambers 3 Number of electrodes: 2

Electrode material: Medical grade stainless steel

Holder Material: Clear perspex

All specifications were tested at the time of printing and are subject to change.

Ordering Information:

MLA015 Alga Chamber

For use with:

MLA270 Stimulator Cable (BNC to Micro-Hooks) MLA250 Stimulator Cable (BNC to Alligator clips)

ISO 9001:2008 Certified Quality Management System

WARRANTY. ADInstruments PowerLab data acquisition units (Product Number Prefix: PL), Front-end Signal Conditioners (Product Number Prefix: FE) are warranted against defects in materials and workmanship for a period of 9 surface from the date of purchase. Other PowerLab data acquisition units and ADInstruments manufactured Front-end and Pod Signal Conditioners, and Instruments are warranted of a period of 3 years from the date of purchase. Third party products are covered by the manufacturer's warranty. Warranties are void if the product has been damaged due to negligence. Consumables and electrodes are not covered by a warranty. All questions regarding service and warranty should be directed to your nearest ADInstruments representative.