

## NARIKA PRODUCT INFORMATION

# Miniature Daniell Cell

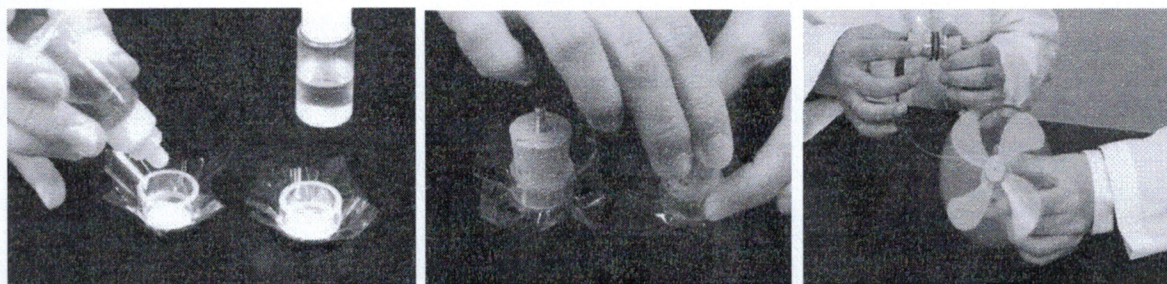
Cat. B10-2014 Basic Daniell cell, B10-2014-10 Full set

### Daniell Cell with Minimum Liquid Waste!!

Miniature Daniell Cell as a new system developed to minimize its waste liquid of copper sulfate solution and zinc sulfate solution. Generally, Daniell Cell has been using an unglazed container and 100ml each of chemicals so far. This new system of Daniel Cell consists of 2 small containers which function as a positive electrode and negative electrode with use of cellophane instead of unglazed container.

A small piece of Copper, few drops of copper sulfate solution and small paper filter put into positive electrode container covered by cellophane film. Also, a small piece of Zinc, few drops of zinc sulfate solution and small paper filter put into negative electrode container covered by cellophane film. When these two electrode containers comes into contact with each other, electromotive force is generated to become a chemical cell. After the experiment, the chemicals (waste solution) can be removed by wiping out by filter paper. Finally, the paper filter with waste chemicals can be disposed as a general waste.

Voltaic cell and Daniell cell are important topic in learning about electricity, chemical reaction of metal ions and ionization tendency. However, there is problem of waste treatment issues after student experiment is finished and waste is left in school. The new system of Daniell cell can solve the problem and save chemicals.



B10-2014 Basic Daniell Cell  
Dropper bottle 10ml: 4 pcs  
Container: 4 pcs  
Cellophane 50x50mm: 12 pcs  
Paper filter 60x90mm: 25 pcs  
Electrode unit: 4 pcs  
Metals (Cu, Zn, Fe, Al): each 5 pcs  
O rings: 6 pcs  
Carrying case: 1 pc



B10-2014-10 Full Set of Daniell Cell

[global@rika.com](mailto:global@rika.com)

<http://global.narika.jp>

Vol. 201904