

# Na<sup>+</sup> Electrode for FURUNO Analyzer

## Intended Use

Na<sup>+</sup> Electrode is an ion selective electrode intended for the quantitative determination of sodium (Na<sup>+</sup>) on FURUNO Analyzer instrument.

## Characteristics

Na<sup>+</sup> Electrode is packaged individually.

Na<sup>+</sup> Electrode should be used according to this notice.

FURUNO cannot guarantee its performances if used otherwise.

## Handling

- Before installing the electrode in the instrument, remove the protections of each side of the electrode and check there is an O-ring.
- Never add the strong impact (drop to the hard ground, etc.) to the electrode. The electrode may be broken.
- Before installing the electrode in the instrument, turn its tag label to the top, and tap it several times on a horizontal desk.
- Describe the installed date of the electrode in the column ① on an attached "Expiry label."
- Describe the date, 12 months later than that in the column ①, in the column ② on an attached "Expiry label."
- Describe the date, whichever is earlier of ② or ③, in the column ④ on an attached "Expiry label."

Na <sup>+</sup> Electrode	Lot No. 901001
Installed date	① <input type="text"/>
Describe date after 12 months of ① in the column ②.	
Expiry date after unpackaged	② <input type="text"/>
Unopened Expiry date	③ 2010/06/30
Describe date, whichever earlier of ② or ③, in the column ④.	
Electrode's Expiry date	④ <input type="text"/>

Fig. 1 Expiry Label

- Put an attached "Expiry label" on the appropriate place, so that you can recognize the expiration date of the electrode.
- Describe the date of the electrode's installation in the column ⑤ on an attached "Electrode label" put on the electrode.

Na <sup>+</sup>
LOT
901001
Install date
⑤ <input type="text"/>

Fig. 2 Electrode Label

- When installing the electrode, place the electrode in the correct position shown below.



Fig. 3 Installation of the Electrode

- In replacement of the electrode, be sure to wear rubber gloves, protective goggles, and a protective mask, to avoid for prevention of infection.
  - Do not use the expired electrode.
  - Make sure that O-rings are placed in the position shown in the drawing below.
- For the installation of each electrode, take care that the O-ring on the next electrode does not come off.
- Perform "Etching" soon after the installation, in order to activate the glass membrane on the electrode.
  - Perform "Activation" with pool serum soon after the installation, in order to keep stability of the electrode.
  - Do not disconnect the electrode except its replacement.
  - After installation, perform "Activation", "Cleaning" and "Etching", with the period whichever is shorter, once a week or every 150 measurement.

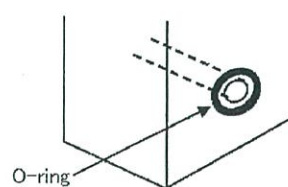


Fig. 4 Installation of the O-ring

## Materials Required but not Provided

- FURUNO Analyzer instrument.
- Standard laboratory equipment.

## Specimen

- Serum or plasma collected with lithium heparin may be used.  
Use of sodium heparin or disodium EDTA as anticoagulant must be avoided.
- Long-time congestion during collection of blood causes a chloride shift owing to an accumulation of CO<sub>2</sub> and chloride is transferred to red blood cells.
- When using serum as sample, infiltration of potassium from blood cell elements, especially platelets may cause more grave problems than using blood plasma.
- Long-term leave of sample in the air causes metabolism of blood cells or exhalation of gas, which brings aberration in chloride density.  
Samples should be separated from the cells promptly after collection.  
If a sample is stored in a refrigerator without serum separation, a large amount of potassium is infiltrated from red blood cells.
- Urine samples can be used by performing an automatic dilution.  
Follow the instruction manual.

## Expiry Label

Put the starting date of use on the "Installed date" column.

## Storage and Stability

The unopened electrodes may be installed up to the date mentioned on the packaging label if stored in a dark place at 5°C to 35°C, and protected from light.  
Once installed on FURUNO Analyzer, Na<sup>+</sup> Electrode can be used until the expiry date, or 12 months after the installed date, whichever is earlier.

## Waste Management

Refer to local requirements.