

# DATASHEET

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## ELECTRODE, REFERENCE



**MU9197 OL**

**Use:** This reference electrode is for *in vitro* use only. It is used as a reference electrode for the quantitative determination of Na, K, and Chloride on Olympus AU series chemistry analyzers.

**Type:** Silver/Silver chloride (internal KCL - junction w frit)  
**Life Span:** 24 months or 150,000 tests

**Storage:** Store a room temperature in provided packaging.  
**Shelf Life:** 12 months from manufacture date.

70C  
0C

### PERFORMANCE CHARACTERISTICS:

**Slope:** NA  
**Within-run SD:** NA  
**Within-run CV:** NA  
**Total SD:** NA  
**Total CV:** NA  
**Linearity:** NA

### INTERFERENCES:

NA

### CLEANING/MAINTENANCE

Follow OEM recommended procedure(s) in instrument operators manual. Procedure will vary depending on the specific analyzer model.

### PRECAUTIONS:

This electrode has been tested for NA, K, and CL control recoveries using Beckman Decision, BioRad Lypochek serum/urine, N.I.S.T. SRM 909b and Vital Scientific Align linearity standards/controls. Our studies indicate that you can expect a consistent adherence to literature values established for the OEM electrode. See note 1 for further information.

### THEORY:

#### THEORY:

A silver/silver chloride sensor detects chloride activity in aqueous potassium chloride. The resulting potential is used as the anode potential in potentiometric measurements of sodium, potassium, and chloride.

### REFERENCES:

Friedman, Clin. Chem. 1980, **26**, 4  
Young, Clin. Chem. 1975, **21**, 5

Note 1 - A comparison of Olympus and Perphormax Brand Ion-selective Electrode Response; D. Nagahara, *Internal White Paper*, January, 2008; Peripheral Visions, Inc.

Note 2 - If electrode is installed or used after 12 months from Manufacture date, Life Span duration shall be considered beginning 365 days from date of manufacture. Expiration date of electrode is 18 months from date of manufacture after which **NO WARRANTY APPLIES**. For Electrode Warranty Term, the number of months or the number of tests shall be used, whichever comes first.