

Innovative Instruments, Inc.

www.2in.com

8533 Queen Brooks Ct. Tampa, FL 33637. USA

General Information

Tel: 813-727-0676

Leak-Free Reference Electrodes, LF Series

Ag/AgCl

The new reference electrode, **LF**, is developed to eliminate the problems associated with the use of conventional porous junction-based reference electrodes such as:

***Clogging**

***Limitations associated with use in concentrated bases, acids and hydrofluoric acid.**

***Sample contamination**

***Electrolyte loss**

***Changing the ionic strength of the sample**

***Difficulties associated with the use in organic solvents.**

***Electrode size and shape limitations.**

LF utilizes a unique junction developed by *Innovative Instruments, Inc.* This junction is robust and **highly conductive but not porous**. In other words, there is no solution trafficking through the junction in either direction. ***This electrode does not introduce potassium, chloride or other ions into the sample!***

LF junction is resistant to most commonly used organic solvents. It offers excellent resistance to acetonitrile, DMSO, THF, MEK, acetone, dichloromethane, esters, alcohol, and, ketones. It is not affected by **hydrofluoric acid and common acids and bases. It can be used in aqua regia or 5 M potassium hydroxide!**

Unlike conventional reference electrodes, there is no need to store **LF** in concentrated chloride solution. The electrode is completely sealed, never needs refilling. If left dry. It will recover upon immersing in water.

The LF series is robust and can be used for months, if not years!