

**DATASHEET** DATE OF ISSUE: 04182005

**O<sub>2</sub> ELECTRODE GEL**



**671488 BI**

**Use:** Electrode gel is for *in vitro* use only. It is used with Oxygen electrodes for the quantitative determination of Glucose on Beckman Coulter CX and Benchtop chemistry analyzers.

**Type:** Gel  
**Life Span:** 2 weeks minimum

**Storage:** Store a room temperature in provided packaging.  
**Shelf Life:** 2 years

55 C  
1 C

**PRECAUTIONS:**

**THEORY:**

Sample is injected into a glucose oxidase solution. A proportional amount of oxygen is released which permeates through a teflon membrane and changes the conductivity of the glucose gel. The polarographic electrode senses this change thru a rodium wire embedded in glass. The rate of change is directly proportional to the concentration of glucose in the sample.

**REFERENCES:**

Friedman, Clin. Chem. 1980, **26**, 4

Young, Clin. Chem. 1975, **21**, 5

Synchron CX chemistry information man. 1996, Glucose Interferences

\* Span is dependent on gain set by electronics on the CX or by operator on the Benchtop models. It is also determined by operator charging techniques and cleanliness of the rhodium wire and silver anode.

\*\* With proper maintenance this electrode can last indefinitely.