

## **PRINCIPLE OF ION SELECTIVE ELECTRODE**



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### Principle of ion selective electrode I S E SFU ca

Principle of ion-selective electrode (I.S.E.) An ideal I.S.E. consists of a thin membrane across which only the intended ion can be transported. The transport of ions from a high conc. to a low one through a selective binding with some sites within the membrane creates a potential difference. See Fig.

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### Ion selective electrode Wikipedia

Ion selective electrode. An ion-selective electrode (ISE), also known as a specific ion electrode (SIE), is a transducer (or sensor) that converts the activity of a specific ion dissolved in a solution into an electrical potential. The voltage is theoretically dependent on the logarithm of the ionic activity,

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### Basics of an Ion Selective Electrode Sensor Technology

The ion-selective electrode works based on the principle of a galvanic cell. It consists of a reference electrode, ion-selective membrane and voltmeter. The transport of ions from an area of high concentration to low concentration through the selective binding of ions with the specific sites of the membrane creates a potential difference.

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### How Ion Selective Electrodes Work Nico2000

The Function of the Reference Electrode. For example, for a monovalent positive ion, the voltage could be -25 mV in 10ppm and +30mV in 100ppm (or even -60 mV in 10ppm and -5mV in 100ppm) but this still gives a slope of +55mV per decade of concentration and indicates that the ISE is functioning correctly.

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### Ion Selective Theory Ionode Electrodes

Ion Selective Electrode Theory. An Ion selective electrode is a sensor which converts the activity of a specific ion (dissolved in a solution) into a voltage (potential), which can be measured by a mV or Ion meter. The voltage is theoretically dependent on the logarithm of the ion activity, as described by the Nernst Equation.

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### The Principles of Ion Selective Electrodes and of Membrane

Description. The Principles of Ion Selective Electrodes and of Membrane Transport is a collection of research works on the theory, principles, and fundamentals of ion-selective electrodes and of membrane transport. This book is organized into two parts encompassing 15 chapters that highlight the application of the membrane model. Part A is

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### 3 ION SELECTIVE ELECTRODES cffet net

3 ION-SELECTIVE ELECTRODES 3.1 General Principles An ion-selective electrode (ISE) is an indicator electrode that responds (produces a potential) when it is placed in a solution containing a certain ion. There is now a large variety of ion-selective electrodes

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### Introduction to Ion Selective electrodes

During the measurement, there is little to no current flow. An electrochemical cell for making a potentiometric measurement with a membrane as an ion-selective electrode (also known electrode, ISE) is shown in Figure 1. Figure 1. Electrochemical cell for making a potentiometric measurement with an ISE.

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### Ion Selective Electrode an overview ScienceDirect Topics

The properties of an ion-selective electrode are characterized by parameters such as linearity, limit of detection

(LOD), limit of quantification (LOQ), sensitivity, selectivity, reproducibility, accuracy, robustness, response time, and lifetime.

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