



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
وَقُلْ رَبِّنَا رَبُّ الْعَالَمَاتِ
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Carbon Paste Electrode



Introduction

Construction

Applications

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Introduction

Carbon Paste Electrode (CPE) is a particular type of electrochemical sensor widely used in voltammetric experiments. CPE is made from a mixture of conducting graphite powder and a pasting liquid (3).

Paraffin oil, petrolatum, silicon oil, dioctylphthalate, α -bromnaphthalene, tricresyl phosphate, epoxy and other materials can be used as the binding liquid.

The basic requirements for a pasting liquid are:

- Chemical inertness and electro inactivity.
- high viscosity and low volatility.
- Minimal solubility in aqueous solutions.
- immiscibility with aqueous solutions



Introduction

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- The use of veterinary drugs in food-producing animals has the potential to generate residues in animal-derived products (meat, milk, eggs, and honey) and poses a health hazard to the consumer.

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