

## **ElectroSep**

### A New DNA Size-Selection Technology using Gene Stix™

#### **Introduction:**

Electro-Sep products are designed to recover size-selected DNA from agarose gel. DNA (nucleic acid) is first electrophoretically separated by size in an agarose gel made with a special Binding Buffer, then the size-selected DNA is bound to a Gene Stix membrane in the gel. Gene Stix are removed from the gel and the DNA is eluted off into a Collection tube using a special Elution Buffer.

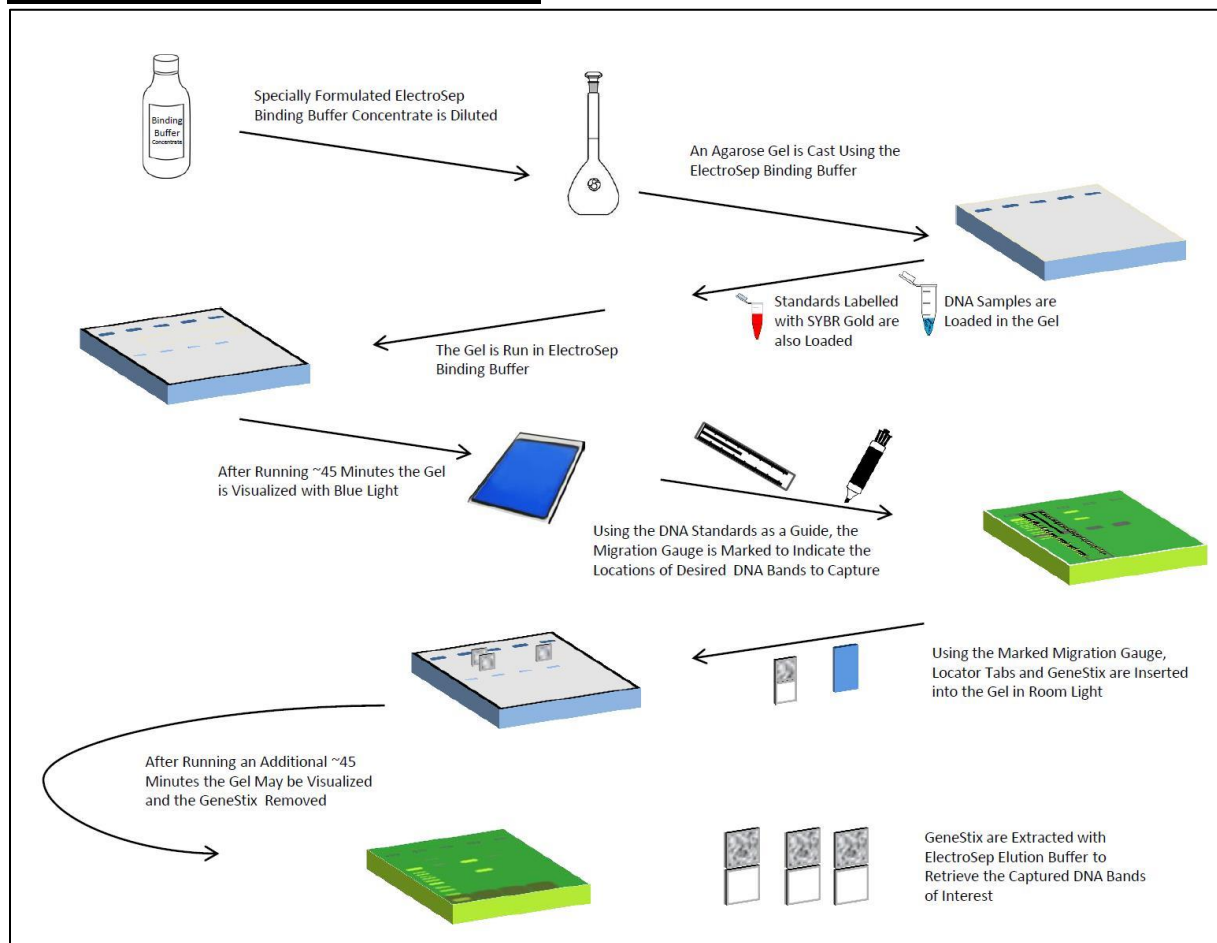
#### **Highlights:**

High DNA recovery

Rapid and easy to use

No damaging UV light needed

#### **How ElectroSep (Gene Stix) works:**



### Advantages of Electro-Sep using Gene Stix technology:

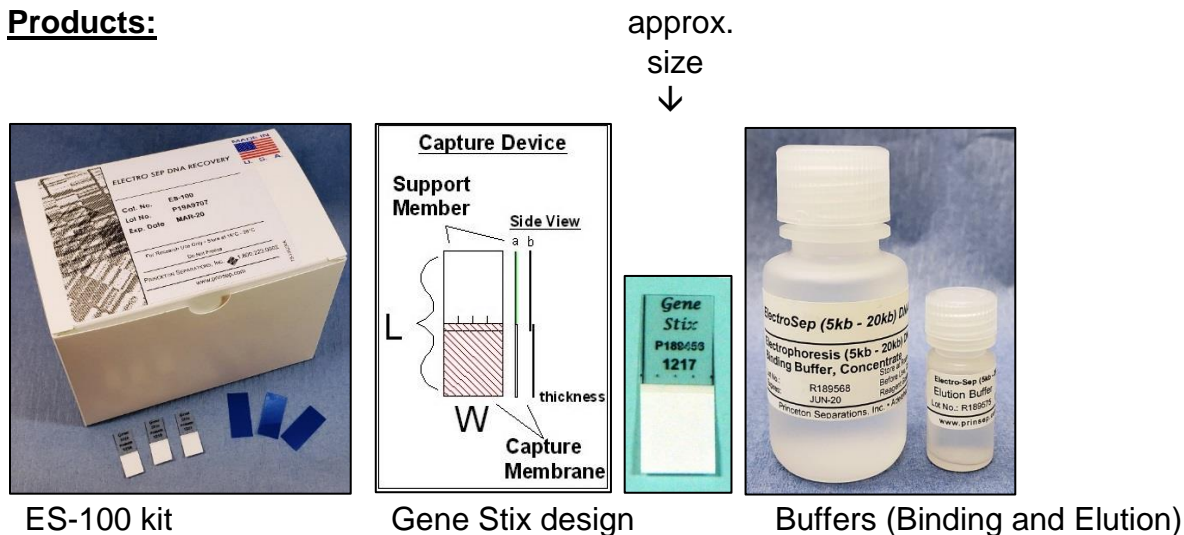
- No specialized gel electrophoresis equipment needed.
- NO UV dyes needed in sample.
- Does not require use of damaging UV sensitive dyes.
- Uses Calibrated DNA Migration Gauge in room light.
- Multiple Gene Stix can be used with one sample.
- Unique Serial Numbering system provides unambiguous sample identification.
- No cutting of gel bands required.

### Applications:

The Electro-Sep family of products can be used for the following applications:

- Size Selection of DNA for use in Next Generation Sequencing (NGS)
- Size Selection and recovery of RNA
- NGS Library Prep
- Long Range PCR
- Barcoded Long Range PCR
- mtDNA
- eDNA

### Products:



**ELECTRO SEP (5kb - 20kb) DNA RECOVERY KIT, Starter kit      ES-100**

- 10ea Gene Stix + associated plastic parts + extra buffers (complete)

**ELECTRO SEP (5kb - 20kb) DNA RECOVERY 50 PC KIT,      ES-102**

- 50 Gene Stix + associated plastic parts      (Buffers not included)

**Binding Buffer, Elution Buffer** (both in several configurations – go to <https://www.prinsep.com/electrosep>)