PCR*-Ready DNA in the Palm of Your Hand

InstaGene Matrix
- Specially formulated, quality-controlled Chelex® resin for superior PCR results
- Reproducible from lot to lot
- Offered in ready-to-use, smaller particle slurry that won’t clog pipette tips
- Fast and affordable; takes only 45 minutes

InstaGene Whole Blood Kit
- Formulated and quality-controlled for optimum results with whole blood
- Special buffer speeds up cell lysis step
- Works with commonly used anticoagulants such as heparin, citrate, EDTA
- Fast and affordable; takes only 30 minutes

InstaGene Genomic DNA Kit
- Yields consistent 50 Kb or larger DNA from whole blood
- Ideal for long PCR and Southern blotting
- Only 30 minutes of hands-on time
- Works with commonly used anticoagulants such as heparin, citrate, EDTA

InstaGene Dry Blood Kit
- Optimum results with dried blood on filter paper
- Works well with 1/8" or 1/4" paper punches
- Fast and affordable; takes only 45 minutes
**InstaGene Matrix**

Treatment of samples with Chelex 100 is the standard procedure for PCR sample preparation from bacteria, whole blood, mammalian cells and animal tissue. The InstaGene matrix makes Chelex easier to handle and is QC’d to ensure reproducibility from lot to lot. It's a ready-to-use slurry made with a small particle size for simple pipetting, and includes a stirring bar for easy resuspension.

**Genomic DNA Kit**

The molecular diagnostics laboratory is often interested in preparing DNA from blood that can be used for different diagnostic procedures, including short and long PCR and Southern blotting. These applications require a method that consistently yields pure DNA over 50 Kb in size. The InstaGene genomic DNA kit meets this criteria quickly and efficiently, requiring only 30 minutes of hands-on time.

**Whole Blood Kit**

In order to increase the efficiency of the cell lysis step, Bio-Rad has designed a lysis buffer to pair up with the ready-to-use InstaGene matrix. The InstaGene whole blood kit offers an extremely efficient and fast method for preparing PCR-ready DNA templates from whole blood. The protocol for whole blood is presented below to illustrate the speed and simplicity of this method.

**Dry Blood Kit**

While the whole blood kit contains the InstaGene matrix, the InstaGene dry blood kit does not. Instead, an extraction and a washing reagent are supplied. The DNA remains bound to the filter paper throughout the procedure and is amplified in situ. The resulting protocol is fast and simple, as illustrated below.

### Ordering Information

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Description</th>
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<tbody>
<tr>
<td>732-6030</td>
<td>InstaGene Matrix, 20 ml (enough for 100 samples)</td>
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<tr>
<td>732-6028</td>
<td>InstaGene Genomic DNA Kit, one bottle each of Lysis Solution 1, Lysis Solution 2, and Protein Precipitation Solution, Rehydration Solution (enough for 100 samples when using 300 µl of blood)</td>
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<tr>
<td>732-6211</td>
<td>InstaGene Whole Blood Kit, includes one bottle of InstaGene Matrix and one bottle of InstaGene Lysis Buffer (enough for 100 samples)</td>
</tr>
<tr>
<td>732-6212</td>
<td>InstaGene Dry Blood Kit, includes one bottle of Extraction Reagent and one bottle of Wash Reagent (enough for 125 samples)</td>
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* The Polymerase Chain Reaction (PCR) process is covered by patents owned by Hoffman-LaRoche.

** See manual for specific protocols.