**Application Note for ExiProgen™**

**1. Materials**

<table>
<thead>
<tr>
<th>Kit</th>
<th>ExiPrep™ Tissue Genomic DNA Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instrument type</td>
<td>ExiProgen™</td>
</tr>
<tr>
<td>Sample type</td>
<td>Animal tissue (mouse)</td>
</tr>
<tr>
<td>Sample amount</td>
<td>25mg</td>
</tr>
<tr>
<td>Protocol ID number</td>
<td>102</td>
</tr>
<tr>
<td>Elution volume</td>
<td>50μl</td>
</tr>
</tbody>
</table>

**2. Experimental Procedure**

1. **Sample Preparation & Pre-treatment**
   - Add Protease K & Tissue lysis buffer
   - Incubation at 60°C for 2hr - O/N
   - Animal tissue (10-40mg)
   - Homogenization with LN2
   - Add Protease K & Tissue lysis buffer
   - Incubation at 50°C for 1-2hr
   - Load into the Tissue filter tube
   - Add Tissue lysis buffer
   - Homogenization with Tissue mixer
   - Take the filtrate only

2. **Nucleic Acid Extraction**
   - Sample loading
   - Protocol Set up (Protocol # 102)
   - Genomic DNA Extraction
3. Experimental Results

- Agarose gel electrophoresis

Agarose gel electrophoresis results of 100ng genomic DNA extracted from 25mg of brain (mouse) samples.
Lane M : size marker, Lane 1, 3, 5, 7, 9, 11, 13, 15 : Extracted samples from brain sample, Lane 2, 4, 6, 8, 10, 12, 14, 16 : Extracted samples from D.W only. Average yield is up to 8-10ug and purity(A260/A280) is over 1.8.

Agarose gel electrophoresis results of 100ng genomic DNA extracted from 25mg of lung (mouse) samples.
Lane M : size marker, Lane 1, 3, 5, 7, 9, 11, 13, 15 : Extracted samples from lung sample, Lane 2, 4, 6, 8, 10, 12, 14, 16 : Extracted samples from D.W only. Average yield is up to 20ug and purity(A260/A280) is over 1.8.

Agarose gel electrophoresis results of 100ng genomic DNA extracted from 0.5cm of tail-tip (mouse) samples.
Lane M : size marker, Lane 1, 3, 5, 7, 9, 11, 13, 15 : Extracted samples from tail-tip sample, Lane 2, 4, 6, 8, 10, 12, 14, 16 : Extracted samples from D.W only. Average yield is up to 10ug and purity(A260/A280) is over 1.8.