

## DNA Extraction EZ Kit II (Sodium Salt Method)

Ivy Fine Chemicals Corporation, Catalog No. B62645, 50 Extractions

Stable at 4°C for two years

Laboratory Use Only

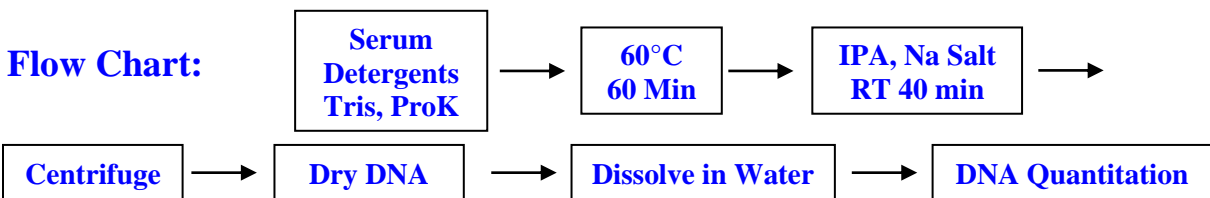
<b>Provided with Kit:</b>	<b>Not Provided with Kit:</b>
<ul style="list-style-type: none"><li>❑ 150 µL Glycogen Solution</li><li>❑ 1 mL Detergent Combo Solution</li><li>❑ 1 mL Tris</li><li>❑ 25 mL Sodium Salt Solution</li></ul>	<ul style="list-style-type: none"><li>❑ Isopropanol (for DNA Precipitation)</li><li>❑ Proteinase K (20 mg/mL, Invitrogen 25530-049)</li><li>❑ 2 mL Microfuge Tube (Eppendorf or Equivalent)</li><li>❑ Microcentrifuge (Eppendorf or Equivalent)</li></ul>

### Solution Preparation:

- ❑ Warm kit at room temperature prior to use
- ❑ Add 5 µL Glycogen to every mL Sodium Salt and mix (prepare fresh as needed)

### DNA Extraction Procedures:

- ❑ Add 100 µL serum and 400 µL water to a 2 mL microfuge tube (5 fold dilution)
  - *Low dilution (e.g., 2-3 fold) may also work and needs to be validated*
- ❑ Add 20 µL Detergent Combo Solution, 20 µL Tris, 10 µL Proteinase K to each tube, gently vortex and incubate at 60°C for 60 min
  - *you can also premix detergent, Tris and Proteinase K and transfer 50 µL of the mixture immediately to diluted serum.*
- ❑ Add 500 µL of Sodium Salt Solution to each tube and gently vortex
- ❑ Add 900 µL of Isopropanol, vortex at a high speed and incubate at room temperature for 40 min
- ❑ Centrifuge at 12,000 rpm for 15 min
- ❑ Immediately pour out supernatant and leave each tube upside down on a paper towel
- ❑ Air-dry DNA. Add 500 µL water and vortex to dissolve DNA
  - *Smaller water volume (e.g., 100 µL) may be applicable to low DNA samples*
- ❑ Purified DNA can be analyzed by PCR, real time PCR, Cybr Green PCR, DNA sequencing (Sanger or NGS), restriction enzyme digestion, Nanostring, CRISPR technology, DNA hybridization, Picogreen fluorescent staining



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