

## DNA Extraction EZ-Kit (Sodium Iodide Method)

Ivy Fine Chemicals, Catalog No. B48202, 50 Extractions

Stable at 4°C for two years

Laboratory Use Only



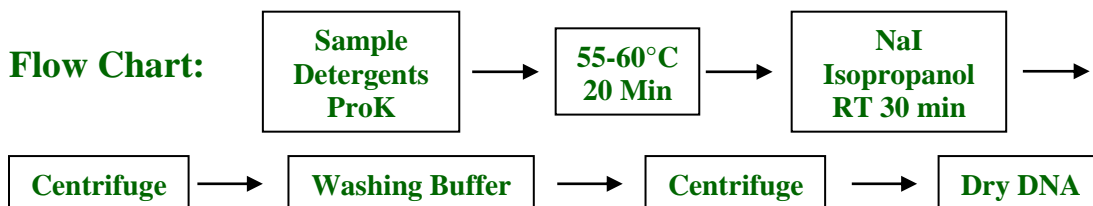
<b>Provided with Kit:</b>	<b>Not Provided with Kit:</b>
<ul style="list-style-type: none"><li>❑ 100 µL Glycogen Solution</li><li>❑ 1 mL Detergent Combo Solution</li><li>❑ 25 mL Sodium Iodide Solution</li><li>❑ 30 mL Washing Buffer (No Ethanol)</li></ul>	<ul style="list-style-type: none"><li>❑ Ethanol (for Washing Buffer)</li><li>❑ Isopropanol (for DNA Precipitation)</li><li>❑ 2 mL Microfuge Tube (Eppendorf or Equivalent)</li><li>❑ Microcentrifuge (Eppendorf or Equivalent)</li></ul>

### Solution Preparation:

- ❑ Add 70 mL Ethanol to Washing Buffer and mix
- ❑ Add 2 µL Glycogen to Washing Buffer (100 mL) and mix
- ❑ Add 2 µL Glycogen to every mL Sodium Iodide and mix (prepare fresh as needed)

### DNA Extraction Procedures:

- ❑ Add 500 µL of each sample or dilution to a 2 mL microfuge tube
- ❑ Add 20 µL of Detergent Combo Solution to each tube, gently vortex and incubate at 55-60°C for 10 min
- ❑ *Option (strongly recommended):*  
*If proteins in high concentration interfere with DNA extraction and subsequent DNA analysis, digest the samples by 20 µL Proteinase K (10 mg/mL) at 55-60 °C for 20 min*
- ❑ Add 500 µL of Sodium Iodide Solution to each tube and gently vortex
- ❑ Incubate at 55-60°C for 10 min
- ❑ Add 900 µL of Isopropanol and vortex
- ❑ Incubate at room temperature for 30 min
- ❑ Centrifuge at 12,000 rpm for 15 min
- ❑ Gently pour out or aspirate supernatant
- ❑ Add 1.8 mL of Washing Buffer (containing Ethanol) and vortex
- ❑ Centrifuge at 12,000 rpm for 10 min
- ❑ Gently pour out or aspirate supernatant
- ❑ Air-dry DNA
- ❑ Add 50-500 µL water and vortex to dissolve DNA
- ❑ Purified DNA can be analyzed by PCR, real time PCR, restriction enzyme digestion, DNA sequencing, Picogreen fluorescent staining



### Ivy Fine Chemicals

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