

DNA Extraction EZ-Kit (Sodium Iodide Method)

Ivy Fine Chemicals Corporation, Catalog No. B48202, 50 Extractions

Stable at 4°C for two years

Laboratory Use Only

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

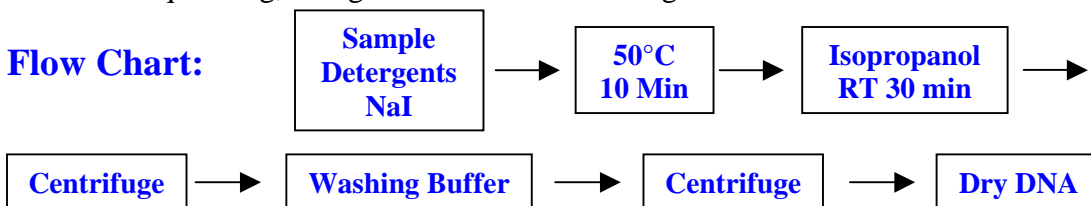
Solution Preparation:

- ❑ Add 70 mL Ethanol to Washing Buffer and mix
- ❑ Add 50 µL Glycogen to Sodium Iodide Solution
- ❑ Add 2 µL Glycogen to Washing Buffer

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 and gently vortex
- ❑ *Option: if proteins in high concentration interfere with DNA extraction and subsequent DNA analysis, digest each sample by 20 µL Proteinase K (10 mg/mL) at 60°C for 20 min and then inactivate the enzyme at 95°C for 5 min*
- ❑ Add 500 µL of Sodium Iodide Solution to each microfuge tube and gently vortex
- ❑ Incubate at 50°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 20-60 µL of water and gently vortex to dissolve DNA
- ❑ Purified DNA can be analyzed by PCR, real time PCR, restriction enzyme digestion, DNA sequencing, Picogreen fluorescent staining

Flow Chart:



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