

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



Provided with Kit:	Not Provided with Kit:
<ul style="list-style-type: none">100 µL Glycogen Solution1 mL Detergent Combo Solution25 mL Sodium Iodide Solution30 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)

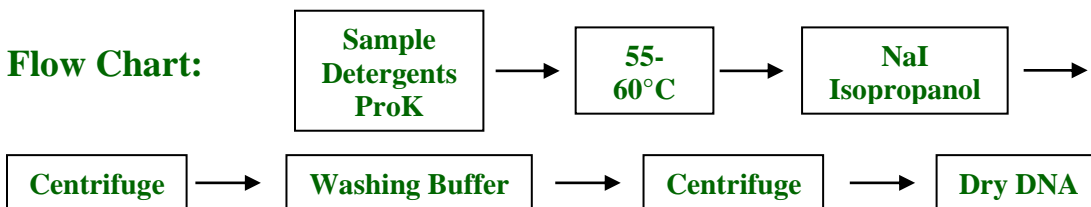
Solution Preparation:

- Add 70 mL Ethanol to Washing Buffer and mix. Add 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)
- Prewarm Sodium Iodide bottle at 30°C prior to use
- Prewarm Detergent Combo tube at 55-60°C prior to use

DNA Extraction Procedures:

- Add 500 µL of each DNA standard, 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

Flow Chart:



Ivy Fine Chemicals

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