Serum DNA Extraction Kit (Sodium Salt Method)

Ivy Fine Chemicals Corporation, Catalog No. B61835, 50 Extractions
Stable at 4°C for two years
Laboratory Use Only

Provided with Kit:	Not Provided with Kit:
❑ 150 µL Glycogen Solution	❑ Isopropanol (for DNA Precipitation)
❑ 1 mL Detergent Combo Solution	❑ Proteinase K (20 mg/mL, Invitrogen 25530-049)
❑ 1 mL Tris	❑ 2 mL Microfuge Tube (Eppendorf or Equivalent)
❑ 25 mL Sodium Salt Solution	❑ Microcentrifuge (Eppendorf or Equivalent)

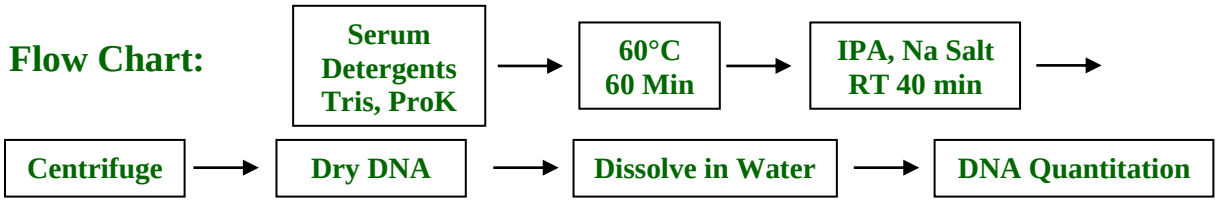
Solution Preparation:

- ❑ 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, restriction enzyme digestion, DNA sequencing, NGS, Picogreen fluorescent staining

Flow Chart:



Ivy Fine Chemicals

1879 Old Cuthbert Road, Suite 23, Cherry Hill, NJ 08034, USA
Phone: 856-465-8550, Fax: 856-616-1161
Email: sales@ivychem.com; support@ivychem.com
Web: http://www.ivychem.com