



ITSIProtect DNA Liq User Guide – 5 Samples

BACKGROUND:

ITSIProtect DNA Liq (IpDL, Cat No. K-0050L-5) is a specially formulated product that is based on Active Chemical Protection™ technology.

The product prevents the breakdown of extracted DNA or DNA in biological samples such as blood, serum, plasma, saliva, urine, cell/tissue lysate. It is ideal for risk-free ambient temperature storage and transport of DNA in the liquid state. DNA samples treated with IpDL can be stored in the liquid state at room temperature for up to 3 weeks or dried down and stored dry for years.

Samples treated with IpDL can be safely shipped in the liquid state over several days using courier or standard ground transportation.

IpDL is compatible with downstream applications such as PCR, electrophoresis, chromatography, Sanger sequencing, next generation sequencing and microarray.

MATERIALS PROVIDED IN THIS KIT (Sufficient for 5 samples):

S/N	ITEM	QTY	CAT. #	SHIPPING
1	ITSIProtect DNA™ Liq. One screw capped tube containing the active compound.	1	K-0050L-5	Rm.T.
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MATERIALS REQUIRED BUT NOT SUPPLIED:

- Adjustable pipette.
- Molecular grade water.
- Vortex mixer.
- Benchtop Centrifuge.

PROCEDURE:

Read the procedure completely before starting.

A. Preparation of ITSIProtect DNA Liq for Use:

- Add 50µL of molecular grade water to the ITSIProtect DNA Liq tube provided. Briefly vortex to reconstitute.
- Briefly centrifuge the ITSIProtect DNA Liq tube to ensure that the solution is collected at the bottom of the tube. The solution is sufficient for 5 samples, and it can be stored for up to 3 months.

B. Treatment of Extracted DNA and Biological samples with ITSIProtect DNA Liq:

- Transfer 10µL of ITSIProtect DNA Liq solution into not more than 50µL of extracted DNA or biological sample. If extracted DNA is used take note of the concentration that is now in the tube with the ITSIProtect DNA reagent.
- Mix by pipetting up and down 10 times.
- Centrifuge briefly to ensure that the solution is collected at the bottom of the tube.
- Sample is ready to be shipped or stored at ambient temperature for not more than 3 weeks.

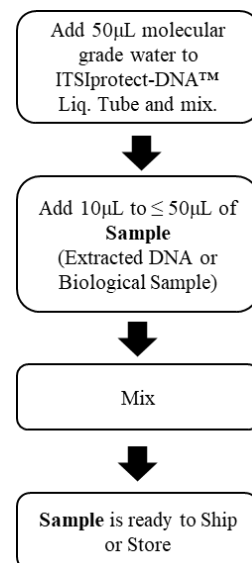


Fig 1: Illustration of the steps involved in the treatment of extracted DNA and biological fluids with ITSIProtect DNA Liq.

C. Recovery of Treated Extracted DNA and Biological Fluids

- Extracted DNA can be used without any further sample preparation. Aliquots of extracted DNA may be removed from the storage tube multiple times as needed for up to 3 weeks.
- Depending on the downstream application, samples such as whole blood and cell/tissue lysate may require the use of a DNA isolation kit before use of the DNA.

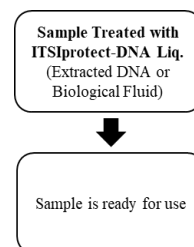


Fig 2: Illustration of the steps involved in the recovery of extracted DNA and biological samples after treatment with ITSIProtect DNA Liq.

*Conditions for use of this procedure/Buffers:

This protocol is the intellectual property of ITSI Biosciences. ITSIProtect DNA is owned by ITSI Biosciences, LLC. Active Chemical Protection™ is a trademark owned by GenTegra LLC. Considering that many factors can cause experiments to fail, ITSI Biosciences cannot guarantee that the use of this protocol and reagents will lead to a successful experiment. In no event shall ITSI Biosciences be held liable for loss of samples, failure of experiments or any other damage or injury associated with the use of this product.

Consider all chemicals as potentially hazardous. Only trained laboratory personnel familiar with good laboratory practice should handle this product. Protective clothing and gloves should be always worn. Use caution to avoid contact with skin and eyes. If contact should occur, wash immediately with plenty of water and follow established guidelines/procedures in your laboratory.

Warning: The procedure and kit are intended for research use only, not for use in human, therapeutic, or diagnostic applications. While ITSI Biosciences may replace defective products, it does not accept any responsibility for improper use of this product, or loss/damage to samples. The end user is responsible for all local, state and federal regulations associated with the use and disposal of this laboratory reagent.