

## User guide

### SafeSeq™ DNA tube

DNA Transportation Tube, for NGS

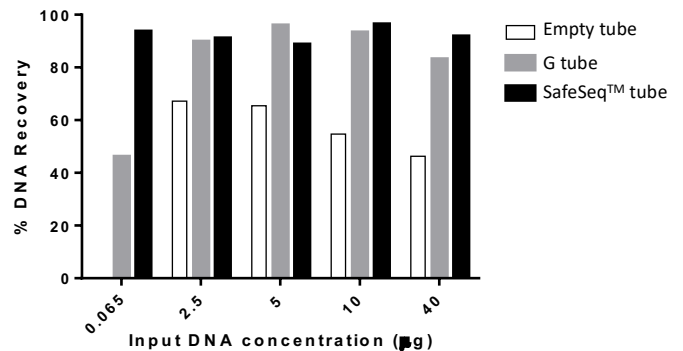
#### Product specification

The SafeSeq™ DNA tube is supplied as coating DNA preservative agents at the bottom of each tube. The SafeSeq™ DNA tube is suitable for preservation of DNA (ranging from 0.065 to 40 µg) at room temperature up to 1 month (more than 88% of DNA recovery rate) [Figure 1]. In addition, the SafeSeq™ DNA tube is compatible with DNA extracted from standard protocols of commercially available DNA extraction kits as well as the manual phenol-chloroform extraction. Moreover, the SafeSeq™ DNA tube can be applied for preservation of various forms (circular double stranded DNA, linear double stranded DNA and linear single stranded DNA) and several sources (Human, Bacteria and Fungus) of DNA [Figure 2]. The DNA recovered from the SafeSeq™ DNA tube is highly intact without degradation [Figure 3]. In summary, the SafeSeq™ DNA tube is the best solution for shipping and delivery of DNA at room temperature.

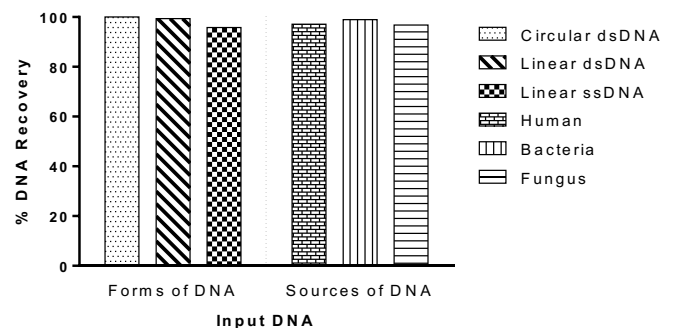
#### Storage and transportation

The SafeSeq™ tube should be stored and transported at room temperature. The shelf-life of SafeSeq™ DNA tube is at least 3 months.

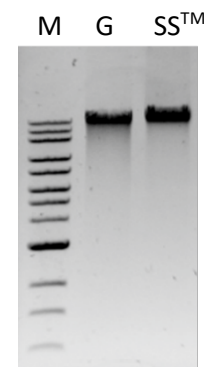
### Performance of the SafeSeq™ DNA tube



**Figure 1.** DNA recovery rate of various DNA concentration obtained from different tubes after 4 weeks of preservation at room temperature.



**Figure 2.** DNA recovery rate of various forms and sources of DNA obtained from the SafeSeq™ DNA tubes after 4 weeks of preservation at room temperature.



**Figure 3.** DNA recovered from the SafeSeq™ DNA tube is highly intact without significant degradation. Genomic DNA (1 µg/lane) stored on the SafeSeq™ DNA tube after 4 weeks of preservation at room temperature.



## Simplified workflow

1. Apply DNA into the SafeSeq™ DNA tube
2. Dry DNA in the SafeSeq™ DNA tube
3. DNA recovery from the SafeSeq™ DNA tube
4. DNA is ready to use in downstream molecular application

## SafeSeq™ DNA tube protocols

### Apply DNA into the SafeSeq™ DNA tube

1. Add 65 ng - 40 µg of DNA in a final volume of 10-100 µl into the bottom of the SafeSeq™ DNA tube
2. Mix by pipetting to ensure that the DNA is well mixed with the DNA preservative agents
3. Proceed to DNA drying protocol

### Dry DNA in SafeSeq™ DNA tube

4. Dry DNA in SafeSeq™ DNA tubes with caps off, according to either of the methods described below
  - Vacuum: approximately 1 hour/10 µl of DNA solution
  - SpeedVac®: 2 – 4 hours
  - Under Biosafety cabinet: 14 hours
5. When DNA is completely dried, cap the tubes and transport SafeSeq™ DNA tubes at room temperature.

### DNA recovery from SafeSeq™ DNA tube

6. Add nuclease-free water (equivalent to the input volume)
7. Mix by pipetting up and down 10 times to solubilize the DNA at room temperature (Do not attempt to recover DNA on ice)
8. Cap the tube, gently mix by flicking the tube 10 times and briefly centrifuge.
9. DNA is ready to use in downstream molecular applications

## SafeSeq™ DNA tube

*DNA Transportation Tube, for Next-Generation*

*Sequencing (NGS)*

- Ready & Easy -to-use
- Best for transportation from lab-to-lab or import/export
- Safe DNA quality at Room Temperature up to 30 days



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## Summary of product specification

Product specification	Description
DNA amount	0.065 – 40 µg
DNA input volume	1-200 µl
Recovery volume	20-200 µl
Stability for transport	Room temperature
Shelf life	At least 3 months (prior to use)
DNA preservation time	Up to 1 month
Recovery rate	88-100% depending on forms and concentration of DNA



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