

Overview

DNA Shipping Solution is an innovative solution developed by 300K Solutions for DNA transport at room temperature (RT) maintaining the quality of the sample. This technology is based on the use of tubes coated with a stabilization buffer that protects DNA against room temperature associated degradation. Simply add purified DNA, mix gently and dry, and your sample is ready to be shipped. Upon arrival and when needed, DNA can be rehydrated using Molecular Biology grade water. *DNA Shipping Solution* is specifically designed for DNA samples. No claim or representation is done for their use on any other biological materials. *DNA Shipping Solution* is For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Product Information

DNA SHIPPING SOLUTION	
Catalog Number	11010001
Product form	25 x 0,6 mL microtubes coated with dried stabilization buffer
Accepted DNA	10µl or 1 µg of DNA
Recommended [DNA]	100 ng/µL
Drying Method	Speed vacuum concentrator (not supplied)

Protocols

DNA stabilization for RT shipment

1. Open the *DNA Shipping Solution* tubes and add 10 µL of DNA with a concentration of 100 ng/µL.
2. Mix gently with a pipette until the dried stabilization buffer is completely dissolved.
3. Spin briefly to ensure the content of the tubes is located at the bottom.
4. With the cap open, introduce the *DNA Shipping Solution* tubes in a Speed Vacuum concentrator and dry for 4 hours at 1200 rpm and 30 °C.

DNA rehydration

1. Add 10 µL of Molecular Biology grade water to each *DNA Shipping Solution* tube with dried DNA and mix gently with a pipette.
2. Resuspend in an orbital shake at medium speed during 30 minutes at RT to ensure correct resuspension.
3. DNA is ready to use.

Storage

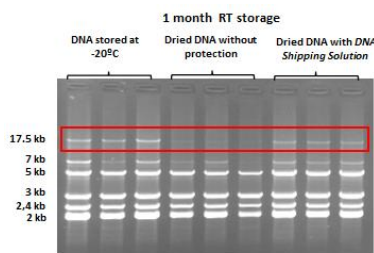
DNA Shipping Solution tubes can be stored at RT (18-25°C) and have an estimated shelf life of 12 months. Do not use tubes after their expiration date. Upon arrival, dried DNA can be stored at RT (18°C-25°C) for at least 1 month without losing its quality.

Quality Control

DNA Shipping Solution has been subjected to rigorous quality control to assess DNA purity, integrity and functionality after drying for RT shipment, following the Proficiency Standards established by the International Society for Biological and Environmental Repositories (ISBER).

DNA Shipping Solution stabilization buffer maintains the functionality and integrity of Dried DNA and stored at RT.

To assess the integrity and functionality of the DNA dried using the *DNA Shipping Solution* tubes we performed a multiplex long PCR with DNA stored for 1 month using three different conditions: frozen at -20°C (reference condition) and dried at RT with or without the *DNA Shipping Solution* stabilization buffer. As shown above, a defined band of 17,5 Kb (red rectangle) is observed in both DNA stored at -20°C and at RT with the *DNA Shipping Solution* stabilization buffer, whereas the DNA stored at RT without this buffer showed an almost undetectable 17,5 Kb band, suggesting a loss in DNA integrity and functionality.









Warnings and Precautions

When using the *DNA Shipping Solution* please followed Good Laboratory Practices (GLP) to ensure a correct outcome of these assay.

Technical Assistance

In case of the need of assistance regarding the use of the *DNA Shipping Solution* please contact support@300k.bio.

DESCRIPTION OF SYMBOLS

Symbol	Description	Symbol	Description
	Catalogue number		Electronic instructions
	Temperature limits		Contains sufficient for n
	Use by date		Manufacturer

Stabilize and dry DNA



COATED VIALS READY TO USE

Find 25 vials ready to use, coated with DNA stabilization buffer.



ADDING DNA

Add 10 μ L of your DNA solution containing DNA (up to 1 μ g).



DRYING

Use a conventional Speed Vacuum concentrator and run a 30°C 4h program.



READY TO SHIP

Now your sample is stabilized and dried, ready to be shipped at Room Temperature and stable for up to 1 month.



USE

To be used for molecular studies, rehydrate the sample with 10 μ L of Molecular Biology grade water.



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