

Catalog Numbers
Cellixi-Guard
RNA preservative
solution

cell-1380

100 mL

Store at room temperature

Storage and Stability:

Cellixi-Guard is shipped at room temperature. For optimal performance, we recommend to store at +4 $^{\circ}$ C

Expiry:

When stored under the recommended conditions and handled correctly, full activity is retained until the expirydate on the outer box label.

Safety Precautions:

Non-Toxic in contact with skin. Toxic if swallowed. Causes burns. Please refer to the material safety data sheet for information regarding hazards and safe handling practice.

Notes:

Research Use Only.

Introduction

Cellixi-Guard is an aqueous tissue storage solution that quickly penetrates most tissues, inactivates endogenous RNase, and immediately stabilizes and protects RNA integrity. Fresh tissue samples immersed in Cellixi-Guard can be stored at –20°C or lower for a long time. Samples are not required to be frozen in liquid nitrogen. Repeated Freeze-thaw don't significantly affect the integrity of the RNA. Samples stored in the Cellixi-Guard can be directly used for RNA extraction using cellixizol RNA extraction reagent or spin column. Cellixi-Guard can be also used for the preservation of tissues such as brain, heart, liver, pancreas, kidney, spleen, testes, muscles and the similar.

Protocol

A. Sample Preparation

- **1- Animal and plant tissues:** Cut tissues (or plant material) into tissue pieces of about 0.5 cm square and add 5 volumes of Cellixi-Guard.
- 2-Cultured cells and white blood cells: Collect cells according to standard experimental procedures, wash with PBS, and add 5-10 volumes of Cellixi-Guard.
- **3-Yeast:** Collect about 10^s cells (12,000 RPM for 2 minutes) and discard the supernatant. Add 0.5 to 1 ml of Cellixi-Guard. Yeast cells should be placed in Cellixi-Guard for long-term storage at -20/-80°C.

B. Sample Storage

Samples are generally stable for 4 weeks at 4 °C. For long-term storage at $20\,^{\circ}\mathrm{C}$ / -80 °C, the sample needs to be immersed in Cellixi-Guard, placed at 4 °C overnight, let the solution fully infiltrated into the tissue, and then transferred to -20 °C / -80 °C.

C. RNA Extraction

- 1- Removal of Cellixi-Guard: Tissue blocks can be removed directly from the Cellixi-Guard using sterile forceps; cells should be centrifuged(>5,000 g, 5 min) to collect cell pellets. Due to the high density of Cellixi-Guard, it is necessary to use a centrifugal force greater than that of ordinary media.
- 2- The excess Cellixi-Guard in tissue samples can be squeezed out with sterile forceps and the surface liquid is gently aspirated with absorbent paper; immediately placed in the lysate and homogenized.
- 3- Extract RNA using a variety of common RNA extraction kits i.e Cellixizol Reagent.

Precautions

- Make sure to use fresh sample material.
- Do not freeze samples before treatment with Cellixi-Guard solution.
- To minimize RNase activity between sample harvest and treatment with Cellixi-Guard, keep sample in a tube on wet ice (0 °C). However, it is recommended to immediately treat the samples with Cellixi-Guard after harvesting.





