



DANAGENE PROTECT SOLUTION

REF.DPT100 100 ml
REF.DPT500 500 ml

1.INTRODUCTION

1.1 Product Description

DANAGENE Protect Solution is a non- toxic solution that **allows the collection and storage of cells and tissues in different conditions and protect and stabilize the genomic DNA and RNA for its following isolation.**

DANAGENE Protect Solution is a aqueous and nontoxic tissue-holding liquid, which can in situ stabilize and protect RNA under non-frozen situation by rapid infiltrating fresh tissues and not affect RNA yield and integrality. Hence, RNA Stabilization Solution eliminates inconveniences to flash freeze samples in liquid nitrogen or take samples from different places. When fresh tissues immersed into RNA Stabilization Solution, RNA can be stored up to a day at 37° C, a week at 25° C, a month at 4° C and a long term at -20° C or -80° C. RNA virus (such as HCV and HIV) is stable up to a month at 37° C in RNA Stabilization Solution.

FEATURES:

- It removes the need of processing immediately the samples.
- The samples can be preserved for 2 weeks at room temperature (20-25°C); 1 month at 4°C and indefinitely at -20°C or -80°C.
- More flexibility as it simplifies the sample collection, it is not necessary to freeze samples in liquid N2 or in laboratory freezers.
- It is an alternative to the use of paraffin for protecting tissues.
- Allows the collection of samples in places that are out from the laboratories.
- It is compatible with the DANAGENE purifications kits.

2. PROTOCOL

2.1 General Remarks

- Use the DANAGENE Protect Solution only with fresh tissue; Do not freeze the tissues before immersion in the solution.
- Before immersion in the DANAGENE Protect Solution, cut the large tissue samples to ≤ 0.5 cm in any dimension.
- Place the fresh tissue in 5-10 volumes of DANAGENE Protect Solution so that the tissue is completely covered.
- Do not freeze the samples in the DANAGENE Protect Solution immediately; Store at 4 ° C overnight (to allow the solution to penetrate the tissue), then place at -20 ° C or -80 ° C for long-term storage.

2.2 Work Procedure

TISSUES

Cut the large tissues into small pieces of 0.5 cm thick, place the fresh tissue in 5 volumes of DANAGENE Protect Solution so that they are covered by the solution and store at the appropriate temperature.

The DANAGENE Protect Solution does not dissolve or break tissue structures. Small mouse or rat organs can be stored whole. Cut the tissues.

PLANTS

Many plant tissues can simply be submerged in 5 volumes of whole DANAGENE Protect Solution.

Some plant tissues have natural barriers to diffusion, such as waxy coatings on leaves, often requiring breakage to allow DANAGENE Protect Solution access to tissue.

CELL CULTURE

Pellet the cells according to the protocols followed by your laboratory. Remove the supernatant and then add 5-10 volumes of the DANAGENE Protect Solution. The cells can be washed in PBS before resuspending in solution, if desired.

SANGRE

Las células blancas de la sangre pueden ser efectivamente conservadas en DANAGENE Protect Solution si previamente han sido separadas de los eritrocitos y suero, y tratadas como si fueran células de un cultivo celular.

BACTERIAS

The DANAGENE Solution Solution is bacteriostatic; Although the bacteria do not grow in it, the cells remain intact. E. coli stored in the DANAGENE Protect Solution Solution for 1 month at 4 ° C are intact and produce non-degraded RNA.

3. GUIA DE PROBLEMAS Y SOLUCIONES

Para cualquier duda o consulta adicional sobre el protocolo pónganse en contacto con el servicio técnico de DanaGen-BioTed .L info@danagen.es