

WB Transfer Buffer (10X)

Cat.No.: D1060

Introduction

WB Transfer Buffer (10X) is mainly used to transfer proteins from polyacrylamide gels to nitrocellulose or PVDF (Polyvinylidene fluoride) membranes during Western blotting procedure which uses antibodies to identify specific protein targets bound to the membrane. to transfer proteins onto a membrane (PVDF/Nitrocellulose) for Western blot. This buffer is supplied as a 10X stock.

Description

Western blotting procedure was first introduced by Towbin in 1979 and has become a routine process for protein analysis. The first step of this procedure is to separate the protein samples according to their size by SDS-PAGE. Later the separated proteins are transferred onto a solid support which is usually nitrocellulose or PVDF membrane. During this procedure the gel is assembled in such a way that the proteins will be transferred from the gel itself to the membrane. In order to add electricity to the system, some liquid buffer must be used to carry the current. The electrical current forces the proteins out of the gel and onto the membrane. The components of the WB Transfer Buffer (10X) help the protein to migrate from the gel and adhere to the membrane.

Application

WB Transfer Buffer (10X) is used for the electrotransfer of protein samples form the polyacrylamide gels to the nitrocellulose/PVDF membrane.

Composition

WB Transfer Buffer (10X) is composed of 0.25M Tris and 1.92M Glycine and the pH is adjusted to 8.3.

Preparatory Instruction

To make 1X WB Transfer Buffer from 10X, mix 100mL of WB Transfer Buffer (10X), 200mL of methanol and 700mL of double distilled water per liter prior to usage.

Storage conditions

WB Transfer Buffer (10X) has to be stored at 2-8°C. Under recommended condition, the reagent is stable for 12 months.

Properties

Appearance	Colorless solution
Clarity	Clear and free of particles
pH	8.2 - 8.4
DNase & RNase	None detected
Bioburden	None detected
Suitability test	This solution has been tested and is suitable for use for transfer of protein samples from acrylamide gel to nitrocellulose/PVDF membrane.

Warning and Precautions

- Not for Medicinal Use.
- Read the Safety Data Sheet (SDS) carefully before beginning the protocol.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Follow good clinical laboratory practices while handling clinical samples.
- Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.