



ISO 13485:2016 ISO 9001:2015

Ver.250101

Coomassie Brilliant Blue Stain

P1300 (250 mL)

FOR RESEARCH USE ONLY, DO NOT USE IT IN CLINICAL DIAGNOSIS

Introduction

Coomassie Brilliant Blue Stain is a Coomassie G-250 methanol-based stain formulated for protein detection in polyacrylamide gel. Protein bands form an intense blue color when stained with Coomassie Brilliant Blue and can be easily distinguished on the gels. This staining is very convenient as it involves a single, ready-to-use reagent and does not modify the target proteins.

Description

Coomassie Brilliant Blue G is a very common dye with two similar triphenylmethane groups and is widely used as a staining solution for visualizing proteins on polyacrylamide gels after electrophoretic separation. In acidic condition this dye binds to basic and hydrophobic residues of proteins and changes color from reddish brown to intense blue and as a result protein samples are visualized as blue bands on the gels. During the staining procedure gels are not required to be fixed as this solution contains methanol and acetic acid. One initial water wash step is required for the removal of residual SDS (during SDS-PAGE) as it interferes with the staining procedure. Staining is usually done for an hour and then a methanol: acetic acid destaining step is required for washing off excess unbound dye from the gel.

Application

Coomassie Brilliant Blue Stain is used for the detection of protein bands on acrylamide gel while doing SDS-PAGE. During this staining procedure proteins are not chemically modified and therefore, the protein bands can be completely destained and recovered for sequencing.

Composition

Coomassie Brilliant Blue Stain contains 0.25% (w/v) Coomassie Brilliant Blue G-250 in 45% (v/v) methanol and 10% (v/v) glacial acetic acid.

Properties

Appearance : Blue colored solution

Clarity : Clear and free of particles

Suitability test : This solution has been tested and is suitable for use for staining protein bands on acrylamide gels.

Storage conditions

Coomassie Brilliant Blue Stain has to be stored at 15-25^o C. Under recommended condition the reagent is stable for 12 months.

Warning and Precautions

Not for Medicinal Use. Read the 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.

Performance and Evaluation

Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

Safety Information

The Coomassie Brilliant Blue Stain is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves and safety goggles when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.