

ClearBand Acrylamide/Bisacrylamide, 19:1 40% Ready-to-use Solution Troubleshooting Guide

100 ml, 500 ml

Cat No: AB191100, AB1911005

Use this guide for common gel-preparation problems with ClearBand Acrylamide/Bisacrylamide, 19:1 40% Ready-to-use Solution. The ready-to-use solution is prepared from molecular-biology-grade acrylamide and bisacrylamide in ultrapure water, is 0.22 µm filter sterilized, and is suitable for protein and nucleic-acid electrophoresis as well as stacking and resolving gel preparation.

Before You Start - Quick Checks

1. Store at 2-8°C.
2. Confirm the acrylamide:bisacrylamide ratio and total monomer percentage required by the gel protocol before use.
3. Use the solution as the monomer stock specified by the validated gel-casting recipe.
4. Keep gel-casting volumes and the selected stock formulation consistent between experiments.

Problem	Most likely cause	Recommended action
Gel composition differs from the intended recipe	A stock with the wrong acrylamide:bisacrylamide ratio or total percentage may have been selected.	Verify the bottle label and confirm that 19:1 40% Ready-to-use Solution matches the gel-casting protocol.
Final gel percentage is incorrect	The ready-to-use stock concentration may have been entered incorrectly in the casting calculation.	Recalculate the monomer volume using the labeled stock percentage and prepare a fresh gel mixture.
Gel behavior changes after switching stock	The new stock may use a different acrylamide:bisacrylamide ratio.	Compare both the ratio and total monomer percentage rather than only the product family name.
Stacking or resolving gel has the wrong formulation	The stock used may not match the validated recipe for that gel layer.	Use the stock ratio and concentration specified by the stacking/resolving gel protocol.
Gel does not form as expected	The monomer stock is only one component of the gel-casting system; another casting condition may be incorrect.	First confirm correct stock identity, amount, and 2-8°C storage, then verify the remaining gel-casting steps in the validated protocol.
Electrophoretic separation differs from previous gels	The monomer ratio or final gel percentage may differ from previous preparations.	Compare the labeled acrylamide:bisacrylamide ratio, stock percentage, and final gel formulation across batches.
Concern about contamination or particles	The product is supplied 0.22 µm filter sterilized, but contamination can be introduced during handling.	Use clean dispensing and gel-casting technique and avoid returning dispensed material to the stock bottle.
Stock was stored outside 2-8°C	Storage did not follow the datasheet recommendation.	Return the stock to 2-8°C and verify its condition before using it for a new gel preparation.
Protein and nucleic-acid gel results are being compared directly	The product is suitable for both applications, but the final gel recipe determines separation behavior.	Use the gel formulation validated for the specific protein or nucleic-acid application rather than assuming one recipe is universal.

Still having trouble? Recheck 2-8°C storage, the labeled acrylamide:bisacrylamide ratio, total monomer percentage, and the calculation used to reach the intended final gel composition before changing other casting conditions.