

ClearBand Fast Coomassie Blue Staining Solution

Troubleshooting Guide

500 ml

Cat No: FCB05

Use this guide for common gel-staining problems with ClearBand Fast Coomassie Blue Staining Solution. The ready-to-use reagent is intended for SDS-PAGE or non-denaturing PAGE and uses a rapid water-wash, brief microwave-warming, stain, and water-destain workflow.

Before You Start - Quick Checks

1. Store between 15°C and 25°C.
2. Complete the three warm-water wash cycles before staining.
3. Use enough stain to cover the gel completely and do not allow water or stain to boil during microwave warming.
4. Allow 15-30 minutes for strong staining in most cases, then destain the background with double-distilled water.

Problem	Most likely cause	Recommended action
Protein bands are faint	The stain volume or staining time may be insufficient.	Use 20-50 mL or enough solution to cover the gel completely and continue gentle staining for up to 15-30 minutes.
Background remains strongly blue	Destaining may be incomplete.	Replace the staining solution with 100 mL double-distilled water and continue gentle shaking; replace with fresh water if further destaining is needed.
Staining is uneven	The gel may not be fully covered or agitation may be inconsistent.	Ensure complete contact with the staining solution and shake gently throughout staining.
Staining develops very slowly	The specified brief microwave warming may have been omitted.	Warm the covered gel with stain for about 10 seconds without boiling, then continue gentle staining.
Gel was damaged during microwave steps	The water or staining solution may have boiled.	Stop heating before boiling during the 30-second water warming steps and the 10-second stain warming step.
High residual background after staining	The pre-stain water washes may have been shortened or skipped.	Repeat the workflow with three warm-water wash cycles, each followed by about 5 minutes of gentle shaking.
Bands appear but contrast is poor	The gel may require additional background destaining after the stain is removed.	Continue destaining in fresh double-distilled water until the background is sufficiently light.
Performance changes after storage	The product may have been stored outside the stated temperature range.	Store the reagent at 15-25°C and use it as a ready-to-use solution.

Still having trouble? Recheck the three pre-washes, no-boil microwave warming, complete gel coverage, 15-30 minute staining, and water destaining before increasing staining time further.