

NutriCulture 100x CellSAFE SHIFT Blue

Troubleshooting Guide

50 mL, 100 mL

Cat No: CSSB50, CSSB100

Use this guide for common incubator water-pan maintenance and color-indicator issues encountered with NutriCulture 100x CellSAFE SHIFT Blue. The concentrate is dark blue; after correct dilution in incubator water the working solution is pale blue. A shift from pale blue to green or yellow indicates that the water should be replaced and may also indicate a deviation in incubator CO2 level.

Before You Start - Quick Checks

1. Clean the CO2 incubator water pan before preparing the working solution.
2. Use autoclaved distilled water.
3. Add 10 mL of 100x CellSAFE SHIFT Blue per 1 L of water.
4. A correctly diluted working solution should appear pale blue.
5. Replace the water-pan solution every 2-4 weeks.
6. If the solution turns green or yellow, replace the water and check the incubator CO2 setting.

Problem	Most likely cause	Recommended action
Working solution is not pale blue	The concentrate may have been diluted incorrectly or the water-pan solution may no longer be in the recommended working condition.	Reprepare the water pan using autoclaved distilled water and 10 mL concentrate per 1 L. The datasheet identifies pale blue as the recommended working color.
Pale blue solution changes to green	The datasheet identifies a green color shift as a signal that the water-pan solution should be replaced; a CO2 deviation may also be present.	Replace the water-pan solution with freshly prepared working solution and verify the incubator CO2 setting.
Pale blue solution changes to yellow	The datasheet identifies a yellow color shift as a signal that the water-pan solution should be replaced; a CO2 deviation may also be present.	Replace the water-pan solution and check that the incubator is operating within its recommended CO2 range.
Concentrate appears dark blue	This is the stated appearance of the concentrated product and is not itself an error.	Dilute the concentrate according to the recommended 10 mL/L preparation and assess the working solution, which should be pale blue.
Contamination risk remains high in the incubator water pan	The water pan may not have been cleaned, autoclaved distilled water may not have been used, or the solution may be overdue for replacement.	Clean the pan, use autoclaved distilled water, prepare 1x working solution at 10 mL/L, and replace it every 2-4 weeks.
Working solution was prepared at the wrong concentration	The 100x stock was not diluted according to the recommended preparation.	Use 10 mL concentrate per 1 L water and scale proportionally for other volumes.
Water-pan solution has been used longer than recommended	The 2-4 week maintenance interval has been exceeded.	Discard the old solution, cleanse the pan, and prepare fresh working solution.
Concern about corrosion or incubator damage	The product may be confused with a corrosive water-pan additive.	Use according to the recommended protocol. The datasheet states that the product is non-corrosive and does not damage stainless steel surfaces, pans, shelves, sensors, or other incubator components.
Color changes recur soon after replacement	The datasheet notes that green/yellow color change may indicate a possible CO2 deviation.	Verify the incubator CO2 setting in addition to renewing the water-pan solution. Do not rely on color correction alone without checking incubator operation.

Still having trouble? Verify the preparation sequence first: clean pan, autoclaved distilled water, 10 mL/L concentrate, and a pale blue working solution. If the solution shifts to green or yellow again, renew it and verify the incubator CO2 setting rather than increasing the product concentration.