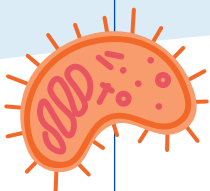
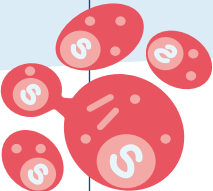
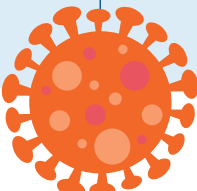
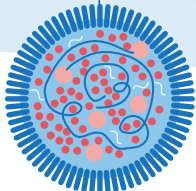






5 Types of Cell Culture Contamination

Cell culture contamination can lead to wasted time, resources, and potentially affect data quality and product safety. By understanding the common types of contamination, you can protect your lab and cultures from unwanted tiny invaders.

Contamination Sources

	Lab personnel, fruit, equipment, unfiltered air	Original tissues, serum, lab personnel, cross contamination	Contaminated cell lines, serum, media, lab personnel, biosafety cabinets	
	Lab personnel, insects, plants, unfiltered air, humidified incubators, media		Cross-use of media from different cell lines, cross-contamination of cultures, biosafety cabinets	
				
Type	Bacterial Contamination	Yeast and Fungal Contamination	Viral Contamination	Mycoplasma Contamination
Detection	microbial cultures, Gram's stain test, visual turbidity, acidic pH	microbial cultures, odor, visual turbidity and mycelia	co-cultivation, PCR testing, electron microscopy, assays, <i>in vivo</i> testing	microbial cultures, Hoechst stains, specialized kits, PCR
Prevention	antibiotics, proper filtration, sterile products, rigorous disinfection, vapor-phase storage	antimycotics, proper filtration, sterile products, rigorous disinfection, vapor-phase storage	ultrafiltration, chemical treatment, gamma-irradiated serum, animal-free products, vapor-phase storage	work with one cell line at a time, thorough cleaning, vapor-phase storage

Techniques to Combat Contamination

			
Ensure good aseptic techniques	Strategic use of antibiotics and antimycotics	Utilize cell repositories	Implement a robust contamination monitoring program

Protect Your Lab from Unwanted Invaders

Learn more about understanding cell culture contamination at www.corning.com/cellculture

CORNING

Warranty/Disclaimer: Unless otherwise specified, all products are for research use or general laboratory use only. Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. For a listing of US medical devices, regulatory classifications or specific information on claims, visit www.corning.com/resources.

For a listing of trademarks, visit www.corning.com/clstrademarks. All other trademarks are the property of their respective owners.

©2025 Corning Incorporated. All rights reserved 7/25 CLS-AN-868