

Mapping of bacterial flora of products entering the Controlled Atmosphere Zone: Catch them all!

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Goals : To ensure the effectiveness of the decontamination chamber of an isolator, the initial bioburden must be as low as possible. Some of our samples from the CAZ (Controlled Atmosphere Zone) have returned positive. Our study aims to map the bacterial flora in order to compare our results with those of the subcontractor laboratory.





nemotherapy	Packaging of medicals devices	Environnement
Azacitidine 5 fluouracile mbrolizumab	Duoperf Spikes Fields	Trash bin Compresses phone
aratumumab	Gloves Diffusers 2 days	Floor of the unpacking room Storage trolley wheels

Discussion:

The folds of all solutes packaging were contaminated

Staphylococcus, Bacillus and Enterococcus from the intestinal flora were identified in the sample from

Enterococcus is caused by the fact that the wheels are not routinely tested. The trolley is moved from the storage room to the preparation room, so there is a risk of germ transfer.

The absence of positive results among chemotherapy vials may be due to a laboratory rinse which can explain the absence of microbiological contamination of the vials

Conclusion:

Our study is an overview of potential gateways into the ZAC.

By comparing our positive results with those of the subcontractor laboratory we confirm the presence of Staphylococcus and Bacillus.

The study highlights the presence of a new species: Enterococcus.

Special attention should be paid to the folds of the peel packaging of IV bags

Actions :

The wheels will be cleaned monthly and tested as a routine. We will limit the movement of the trolley. The removal of overpack bags of solutes before decontamination is being considered.

Finally, it would be interesting to test the risk areas of the packaging of solutes after decontamination inside the isolator and to resample once the new procedures are in place to assess their effectiveness