Make it better

Confidence, performance, assurance

Thermo Scientific™ Quanti-Cult Plus™ Quantitative Quality Control Microorganisms

ISO 17034-certified



Sterility and growth promotion

Quanti-Cult Plus kits provide specific, reproducible numbers of viable microorganisms with <100 colony forming units (cfu) per inoculum with a full range of pharmacopeia-referred strains. They are provided with a passage number as low as passage 2 upon first culturing. This helps ensure confidence in authenticity and purity of your strains.

Trust in complete traceability with our fully characterized ATCC® Licensed Derivative strains.

Simple workflow, with just three easy steps:

1 Rehydrate



2 Mix and incubate for 15 minutes



3 Decant inoculum



Choose Quanti-Cult Plus kits for:

Guaranteed performance
Pharmacopeia-compliant, accredited reference material producer in accordance with ISO 17034

Improved safety
Reduce the risk of contamination and infection with a ready-to rehydrate, two-vial system that requires zero organism handling

Enhanced efficiency
No serial dilution or stock culture maintenance required

Quanti-Cult Plus validation study

performed by Thermo Fisher Scientific laboratory in India

Quantitative microbiological testing frequently shows substantial variability due to the complexities of working with and measuring living organisms. However, the proprietary technologies and methodologies utilized in the development of Quanti-Cult Plus microorganisms have revolutionized quantitative microbiology, enabling more precise and accurate quality controls across different batches. Produced in the U.S. since the 1970s, Quanti-Cult microorganisms are used by laboratories around the world.

Summary

This review compiles the internal quality control results of Quanti-Cult Plus microorganism batches subjected for transport validation. All results summarized herein were well within the established specifications. These results indicate that <100 CFU per aliquot was maintained for all investigated batches up to the end of the study.

Strains

The Quanti-Cult Plus range includes a comprehensive range of microorganisms, catering to various testing requirements. It covers strains encompassing bacteria, yeast, and mold. Among these, it includes the five primary strains essential for GPT (Growth Promotion Testing) in Microbial Enumeration Tests as per USP (United States Pharmacopeia) 61:

1. *Aspergillus brasiliensis*
2. *Bacillus spizizenii*
3. *Candida albicans*
4. *Pseudomonas paraeruginosa*
5. *Staphylococcus aureus*

Additionally, it addresses the supplementary strains necessary for USP 71 and tests for Specified Microorganisms per USP 2 6 13:

1. *Clostridium sporogenes*
2. *Escherichia coli*
3. *Salmonella abony*

This broad spectrum ensures thorough microbial analysis and compliance with relevant regulatory standards.

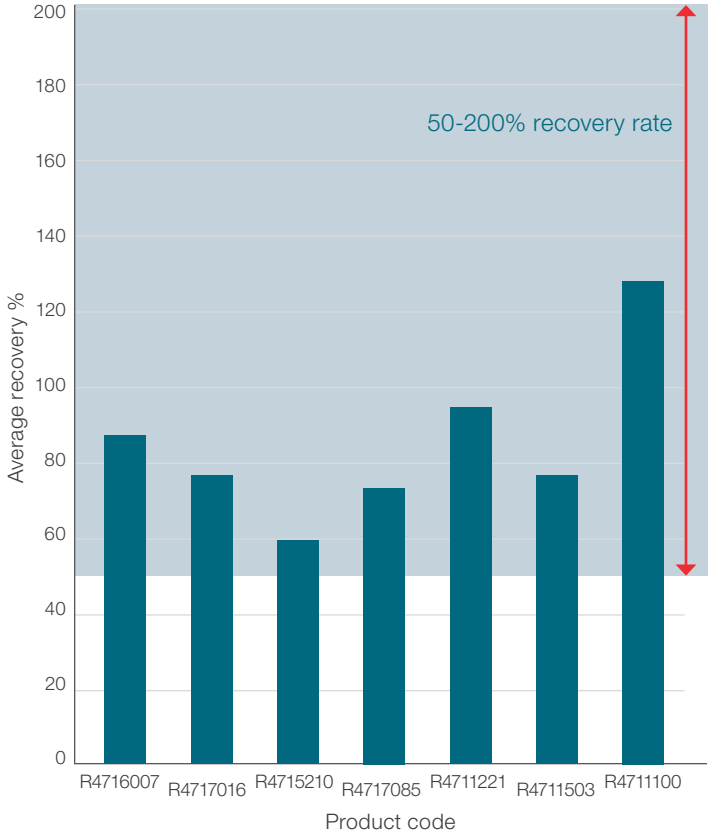
Product testing

Storage of Quanti-Cult Plus microorganisms has been validated to maintain a temperature of 2-8°C.

Storing Quanti-Cult Plus products outside of the recommended above guidelines may compromise the integrity of the packaging and performance of the product. The above guidelines are stipulated to ensure our products are optimized for use and it is recommended that customers wishing to deviate from these storage guidelines are to conduct their own validation.

Below is the performance result obtained for Quanti-Cult Plus which was shipped and stored at the above-mentioned conditions.

Fig 1. Average percentage recoveries of QuantiCult Plus



Conclusion

The results demonstrate lot-to-lot consistency that meet regulatory requirements. Quanti-Cult Plus microorganisms provide our customers with an alternative choice to methods requiring dilutions and time-consuming inoculum preparation steps. They require approximately 15 minutes of preparation to rehydrate tubes, and are available in the inoculum concentration of < 100 CFU (colony forming units), meeting all pharmacopoeia guidelines.

Thermo Fisher SCIENTIFIC

Pharmacopoeia-compliant organisms available:

Organism	Storage temperature	Format	Product code
Aerobic bacteria			
Staphylococcus aureus ATCC® 6538™	2-8 °C	Quanti-Cult Plus: 100 tests/kit	R4717016
Bacillus spizizenii ATCC® 6633™	2-8 °C	Quanti-Cult Plus: 100 tests/kit	R4711221
Pseudomonas paraeruginosa ATCC® 9027™	2-8 °C	Quanti-Cult Plus: 100 tests/kit	R4715210
Anaerobic bacteria			
Clostridium sporogenes ATCC® 11437™	2-8 °C	Quanti-Cult Plus: 100 tests/kit	R4711703
Fungi			
Candida albicans ATCC® 10231™	2-8 °C	Quanti-Cult Plus: 100 tests/kit	R4711503
Aspergillus brasiliensis ATCC® 16404™	2-8 °C	Quanti-Cult Plus: 100 tests/kit	R4711100

Contact your local Thermo Fisher Scientific Microbiology Account Manager for more information.

We also provide a range of Harmonized Pharmacopoeia media in both dehydrated and pre-prepared formats:



Raw materials

A wide selection Dehydrated Culture Media, supplements, and special blends.



Environmental monitoring

Our range of plated media are available in a variety of media types and formats.



Aseptic processing

BioProcess Containers (BPCs) provide an innovative bag and connector design, reducing the burden of media fills.



Sterility testing

Large selection of bottle and lid types complete with core media as well as required rinsing and diluting fluids.

For more information, contact us, or visit
thermofisher.com/pharmamicrobiology

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