

QUALITY CONTROL MICROORGANISM PRODUCT GUIDE



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FOR CULTURE PURPOSES AND QUALITY CONTROL APPLICATIONS

The KWIK-STIK™ is well-known for its clever design and accurate, repeatable results. Each KWIK-STIK™ device features a single microorganism strain in a lyophilized pellet, a reservoir of hydrating fluid, and an inoculating swab. For added convenience, a peel-off identification label is included for easy documentation. The KWIK-STIK™ is available in packs of 2 or 10.



FEATURES	BENEFITS
Microorganism, hydrating fluid, and inoculating swab all in one self-contained device	No need for forceps, reduces the risk of contamination
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Lower price than competitive products	Cost effective & economical
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	Assured quality
Product warranty	Increased customer confidence



FOR CULTURE PURPOSES AND QUALITY CONTROL APPLICATIONS

LYFO DISK® lyophilized pellets contain a single microorganism strain and are the most economical reference stock culture option. LYFO DISK® preparations are known for their ease-of-use; simply re-hydrate a pellet and inoculate. LYFO DISK® preparations are packaged in a re-sealable vial containing 10 pellets of a single microorganism strain.



FEATURES	BENEFITS
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Lower price than competitive products	Cost effective & economical
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	Assured quality
Product warranty	Increased customer confidence

COMMERCIAL AND MISCELLANEOUS MICROORGANISM SETS

Commercial Sets offered by Microbiologics® contain the manufacturer recommended quality control strains for bacterial identification systems (e.g., Vitek®) and bacterial detection products (e.g., ReadyCult®). Miscellaneous Sets offered by Microbiologics® include the quality control strains required by CLSI for sensitivity testing, and appropriate microorganism groupings for a wide selection of additional quality control tests. Ordering microorganisms in sets simplifies the ordering process. QC Microorganism Sets are available for many instruments including:



- Vitek® and Vitek® 2
- MicroScan®
- API®
- BD BBL™ Crystal™, Phoenix™ and GeneOhm™
- BIOLOG®
- MicroSEQ®
- Cepheid® Smart Cycler® and GeneXpert®
- And Many More!

Choose from three convenient packaging options:

1. LYFO DISK®
(vial of 10 lyophilized pellets of a single microorganism)
2. KWIK-STIK™ 2 Pack
(2 STIKS of a single microorganism)
3. KWIK-STIK™ 10 Pack
(10 STIKS of a single microorganism)

FEATURES	BENEFITS
One simple catalog number	Simplifies the ordering process
Available in three packaging configurations	Suitable for a variety of customers
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	Assured quality
Product warranty	Increased customer confidence

TWO PASSAGE MICROORGANISMS

KWIK-STIK™ Plus microorganisms are designed to meet the needs of laboratories requiring QC microorganisms that are a limited number of passages from the reference culture. Each KWIK-STIK™ Plus microorganism preparation is just two passages from the reference culture, allowing for more subcultures. Conveniently packaged in a KWIK-STIK™ device featuring a lyophilized microorganism pellet, inoculating swab and reservoir of hydrating fluid, KWIK-STIK™ Plus is ready to use and affordable. For added convenience, a peel-off Certificate of Assay is included for quality control documentation. KWIK-STIK™ Plus includes five STIKS of a single strain.



FEATURES	BENEFITS
Two passages from reference culture	Allows more subculturing
Microorganism, hydrating fluid and inoculating swab all in one self-contained device	No need for forceps, reduces the risk of contamination
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Lower price than competitive products	Cost effective & economical
Peel-Off Certificate of Assay	Complete and convenient documentation
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	Assured quality
Product warranty	Increased customer confidence



Lab-Elite™ kits include:

- One self-contained device including a lyophilized microorganism pellet, reservoir of hydrating fluid and inoculating swab (KWIK-STIK™ format.)
- Certificate of Analysis in the canister.

CERTIFIED REFERENCE MATERIALS NOW AVAILABLE TO MEET ISO 17025:2005 REQUIREMENTS

As an ISO Guide 34 accredited manufacturer, Microbiologics offers Lab-Elite™ Certified Reference Materials to help ISO 17025 accredited laboratories meet the requirements of this standard. Lab-Elite™ Certified Reference Material is delivered in an easy-to-use KWIK-STIK™ format and includes a Certificate of Analysis inside the canister. The Lab-Elite™ Certified Reference Material product line continues to expand with the addition of new microorganism strains in this convenient format!



FEATURES and APPLICATIONS

- Easy-to-use KWIK-STIK™ format
- Traceable to reference culture
- Highly characterized microorganisms
- Supported by the highest accreditations in the industry
- For validation and verification of processes and instruments
- Quality Control of research
- For use in ISO 17025 accredited laboratories

FOR MICROSCOPIC EXAMINATIONS

KWIK-QC™ Product Details

KWIK-QC™ Slides provide the performance of QC and sample staining in a single step. Each slide has a positive and negative inoculated well and space for concurrent staining of culture isolates or clinical samples.



Microbiology QC Slides Product Details

Microbiology QC Slides come with one or two droplets of an air-dried and methanol-fixed organism, or a single smear containing a designated organism population.



FEATURES	BENEFITS
Certificate of Quality	Assured quality
Ready to use out of the box	No prep time, saves time & labor
Wide variety of controls including protozoa	Instant access to uncommon specimens
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Product warranty	Increased customer confidence



EZ-Accu Shot™ kits include:

- 5 vials of a single enumerated microorganism (1 lyophilized pellet per vial)
- 5 vials of hydrating fluid (1.2 mL in each vial)
- Peel-Off Certificate of Assay

FOR GROWTH PROMOTION TESTING

EZ-Accu Shot™ is a quantitative microorganism preparation designed for performing Growth Promotion Tests of culture media with ease. Each EZ-Accu Shot™ lyophilized microorganism preparation is designed to deliver less than 100 CFU per 0.1mL of hydrated suspension as recommended by the USP/JP/Ph. Eur. With little to no preparation time required and up to eight hours of stability, EZ-Accu Shot™ adds efficiency and flexibility to QC laboratories' busy schedules. Each 1.2 mL vial of hydrated suspension offers 10 inocula. For added convenience, a peel-off Certificate of Assay is included for quality control documentation.



FEATURES	BENEFITS
Kit contains microorganism and hydrating fluid	Simplifies the ordering process, saving time and money
Instant dissolve, no pre-incubation	Little to no preparation time
One pellet per vial	Eliminates the need for forceps, reducing the risk of contamination
Lower price than competitive products	Cost effective & economical
Eight hour stability	Extended time & flexibility to perform tests
Precision in CFU count	Increased customer confidence
Does not require frozen storage condition	Easy storage & no dry ice required, reducing shipping costs
Peel-off Certificate of Assay	Complete & convenient documentation
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	USP recommended & traceable for assured quality
Product warranty	Increased customer confidence



FOR GROWTH PROMOTION TESTING

EZ-Accu Shot™ Select boasts all of the same features and benefits as the original EZ-Accu Shot™, but includes five compendial microorganism strains for Growth Promotion Testing in one convenient package. The EZ-Accu Shot™ Select kit contains five strains required by the Pharmacopeias for Growth Promotion Testing. Each strain is licensed and traceable to the original reference strain and comes in the form of a quantitative, instant-dissolving lyophilized pellet. EZ-Accu Shot™ Select microorganisms deliver less than 100 Colony Forming Units (CFU). For added convenience, the EZ-Accu Shot™ Select kit also contains hydration fluid and individual peel-off information labels for each of the five strains.



FEATURES	BENEFITS
One container, five compendial strains	Less inventory needed. Reduced waste. Simplifies the ordering process, saving time and money
Instant dissolve, no pre incubation	Little to no preparation time
One pellet per vial	Eliminates the need for forceps, reducing the risk of contamination
Lower price than competitive products	Cost effective & economical
Eight hour stability	Extended time & flexibility to perform tests
Precision in CFU count	Increased customer confidence
Does not require frozen storage condition	Easy storage & no dry ice required reducing shipping costs
Five (5) Peel-off Information Labels (one for each strain)	Complete & convenient documentation
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	USP recommended & traceable for assured quality
Product Warranty	Increased customer confidence

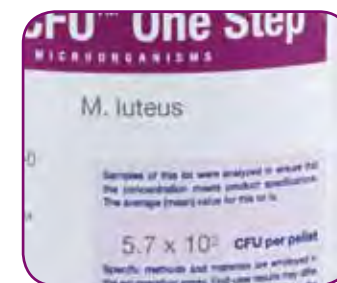


EZ-CFU™ One Step kits include:

- 20 lyophilized pellets of a single quantitative microorganism
- 10 vials of hydrating fluid (2 mL in each vial)
- Peel-Off Certificate of Assay

FOR GROWTH PROMOTION TESTS

The Growth Promotion Test (GPT) is an important function in the United States (USP), European (Ph. Eur.) and Japanese (JP) Pharmacopeias. EZ-CFU™ One Step quantitative microorganism preparations are used to perform Growth Promotion Tests of culture media with ease. No dilutions are required. EZ-CFU™ One Step is designed to deliver less than 100 CFU with each 0.1 mL inoculum. Each 2 mL vial of hydrated suspension offers 19 inocula. EZ-CFU™ One Step can be used for up to eight hours after hydration if the suspension is refrigerated between uses*. For added convenience, a peel-off Certificate of Assay is included for quality control documentation.



FEATURES	BENEFITS
Kit contains microorganism and hydrating fluid	Simplifies the ordering process, saves time and money
Quantitative	Saves time and reduces labor by delivering a specific number of colony forming units (CFU)
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Lower price than competitive products	Cost effective & economical
Eight hour stability	Extended time & flexibility to perform tests
No dilutions required	Less prep time, easy to use
Peel-Off Certificate of Assay	Complete and convenient documentation
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	Assured quality, meets USP guidelines
Product Warranty	Increased customer confidence

*Catalog numbers 0318Z and 0320Z are an exception to the eight hour stability and must be used within 30 minutes of hydration.



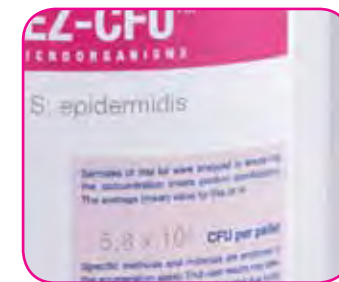


EZ-CFU™ kits include:

- 20 lyophilized pellets of a single quantitative microorganism
- 10 vials of hydrating fluid (2 mL in each vial)
- Peel-Off Certificate of Assay

FOR GROWTH PROMOTION TESTS

EZ-CFU™ is used to perform Growth Promotion Tests of culture media with ease. EZ-CFU™ lyophilized microorganism preparations deliver less than 100 CFU per 0.1 mL when processed as directed. A one log dilution in pH 7.2 phosphate buffer is required. Following the dilution step, EZ-CFU™ provides over 90 inocula using the same suspension. For added convenience, a peel-off Certificate of Assay is included for quality control documentation.



FEATURES	BENEFITS
Kit contains microorganism and hydrating fluid	Simplifies the ordering process, saves time and money
Quantitative	Saves time and reduces labor by delivering a specific number of colony forming units (CFU)
Up to 90 inocula per suspension	Ideal for labs performing a high volume of GPT
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Lower price than competitive products	Cost effective & economical
Peel-Off Certificate of Assay	Complete and convenient documentation
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	Assured quality, meets USP guidelines
Product warranty	Increased customer confidence



FOR ANTIMICROBIAL EFFECTIVENESS AND PRESERVATIVE EFFICACY TESTING

Antimicrobial Effectiveness and Preservative Efficacy Testing are a critical element to the development of safe and effective Cosmetic and Pharmaceutical products. Ready-to-use EZ-PEC™ quantitative microorganism preparations are designed to provide the required microorganism challenge concentrations for Antimicrobial Effectiveness Tests and Preservative Efficacy Tests. When processed as directed, EZ-PEC™ delivers a final concentration of 10^5 to 10^6 CFU per mL of the product being tested. For added convenience, a peel-off Certificate of Assay is included for quality control documentation.



EZ-PEC™ kits include:

- 20 lyophilized pellets of a single enumerated strain
- 10 vials of hydrating fluid (2 mL in each vial)
- Peel-Off Certificate of Assay

FEATURES	BENEFITS
Kit contains microorganism and hydrating fluid	Simplifies the ordering process, saving time and money
Quantitative	Saves time and reduces labor by delivering a specific number of colony forming units (CFU)
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Lower price than competitive products	Cost effective & economical
Peel-Off Certificate of Assay	Complete and convenient documentation
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	Assured quality, meets USP guidelines
Product warranty	Increased customer confidence





FOR MULTIPLE APPLICATIONS

Epower™ microorganisms can be used to perform many essential quality control functions including microbial detection and enumeration, equipment calibration, method validation, bioburden determination, disinfectant challenge testing and antibacterial effectiveness and lethality testing. Available in concentrations ranging from 10^2 to 10^8 CFU per pellet, Epower™ lyophilized microorganism preparations are extremely versatile. Epower™ pellets can be used individually or several Epower™ pellets can be combined for a mixed microorganism population challenge. They can also be easily manipulated to deliver a wide variety of concentrations. For added convenience, a peel-off Certificate of Assay is included for quality control documentation. Epower™ is packaged in a resealable vial containing 10 pellets of a single quantitative microorganism strain.



FEATURES	BENEFITS
Quantitative	Saves time and reduces labor by delivering a specific number of colony forming units (CFU)
Versatile	Easily manipulated to deliver desired CFU levels
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Lower price than competitive products	Cost effective & economical
Peel-Off Certificate of Assay	Complete and convenient documentation
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	Assured quality, meets USP guidelines
Product warranty	Increased customer confidence

DAILY PROCESS CONTROLS

Food process controls provide the dependability and reliability that food testing laboratories need to meet the requirements of their quality assurance programs and ensure the health of consumers. EZ-FPC™ lyophilized microorganism preparations are used as daily process controls for qualitative and quantitative detection methods. Qualitative EZ-FPC™ microorganism preparations provide a guaranteed concentration of 10^2 CFU per pellet for presence/absence testing. Quantitative EZ-FPC™ microorganism preparations provide a guaranteed concentration of 10^3 CFU per pellet for quantitative test methods. For added convenience, a peel-off Certificate of Assay is included for quality control documentation. EZ-FPC™ is packaged in a vial of 10 pellets of a single microorganism strain.



FEATURES	BENEFITS
Quantitative or Qualitative	Saves time and reduces labor by delivering a specific number of colony forming units (CFU)
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Lower price than competitive products	Cost effective & economical
Peel-Off Certificate of Assay	Complete and convenient documentation
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	Assured quality
Product Warranty	Increased customer confidence



DAILY PROCESS CONTROLS FOR SPOILAGE DETECTION

Food microbiology labs rely on EZ-SPORE™ quantitative microorganism preparations to support their quality assurance programs as daily process controls for spoilage detection methods. EZ-SPORE™ preparations provide a guaranteed concentration of 10^4 CFU per pellet. For added convenience, a peel-off Certificate of Assay is included for quality control documentation. EZ-SPORE™ is packaged in a vial containing 10 pellets of a single lyophilized strain.



FEATURES	BENEFITS
Quantitative	Saves time and reduces labor by delivering a specific number of colony forming units (CFU)
Does not require frozen storage conditions	Easy storage & no dry ice required, reduces shipping costs
Lower price than competitive products	Cost effective & economical
Peel-Off Certificate of Assay	Complete and convenient documentation
Online Certificate of Analysis	Documentation of phenotypic, macroscopic and microscopic test results
Traceable to reference culture	Assured quality
Product warranty	Increased customer confidence



Applicable Industries: Educational, Food Quality.

- ◊ Environmental Isolate Preservation Services
- ◊ Made to Your Specifications
- ◊ Multiple Configurations
- ◊ Instrument Controls



In today's world, product safety is a global concern affecting public health, economics and international trade. As a result, we continue seeing an increase in government regulations and stronger emphasis on the use of international standards. Undoubtedly, your list of "objectionable microorganisms" is expanding as Quality Control testing increases to encompass everything from environmental isolates, to microbial strains coming from raw materials. At Microbiologics, we offer a wide variety of Custom Solutions to meet your objectionable microorganism needs – we will work with you to develop products that meet your exact specifications, in easy-to-use, convenient formats.



For Your Unique
Objectionable Microorganism Needs

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