

## Instruction Manual

Catalog Number	PK-CC91-5061
Kit Contents	PK-CC91-5061 consists of Mycoplasma-ExS Spray (500 ml, PK-CC91-5051), Aquaguard-1 (100 ml, PK-CC01-867-1B) and Aquaguard-2 (500 ml, PK-CC01-916-500)
Mycoplasma-ExS Spray	PK-CC91-5051
Description	<p>Mycoplasma-ExS Spray is a reliable, all-around anti-microbial agent that is very safe and simple in its use. It is free of alcohols and harmful volatile organic compounds (VOCs) such as aldehydes. It is based on silver-polymer technology and provides a long-lasting, strong effect against mycoplasmas, bacteria, fungi and non-enveloped viruses. Mycoplasma-ExS is excellent for maintaining a clean, contamination-free work area.</p> <p>Mycoplasma-ExS Spray is highly effective against a broad spectrum of unwanted microbes commonly found in biological labs and has been validated according EN 13697. It completely eliminates reference microbes like <i>Pseudomonas aeruginosa</i>, <i>Escherichia coli</i>, <i>Enterococcus hirae</i>, and <i>Staphylococcus aureus</i> (incubation time of 5 minutes at 22°C).</p> <p>The ready-to-use disinfectant does not irritate skin and it is not known to cause allergies. Moreover, it is neither carcinogenic (causing cancer) nor mutagenic (damaging genes). Mycoplasma-ExS Spray is excellent for cleaning and disinfection of hard laboratory surfaces and apparatuses, including laminar flow hoods, incubators, work benches, cell storage boxes, cryo-chambers, or instruments – making it ideal for laboratory everyday use.</p> <p>Mycoplasma-ExS Spray is non-corrosive to metal, does not damage plastic or rubber and is far less damaging to most surfaces than alcohol, bleach or hydrogen peroxide.</p>
Quantity	• 500 ml (PK-CC91-5051)
Effective against many Contaminants	Works effectively against mycoplasmas, fungi, bacteria, and non-enveloped viruses.
Non-Corrosive/Non-Carcinogenic	Mycoplasma-ExS is a non-corrosive and non-carcinogenic solution.
Ready-to-Use and convenient	Mycoplasma-ExS is a ready-to-use solution supplied in a refillable spray bottle.
Applications	<p><u>Disinfection of surfaces</u></p> <p>Spray Mycoplasma-ExS directly and evenly on the contaminated surface until it is moistened completely. <b>After 5 minutes wipe off thoroughly with a paper towel.</b> Do not let the spray solution dry on the surface. (<b>Caution: Disinfectant residue may turn yellow if not wiped off.</b>) Spraying the workbench filter system is not recommended. Disinfection Spray is for <b>hard surfaces</b> only. Do not spray porous surfaces!</p> <p><u>Disinfection of laboratory apparatus</u></p> <p>Moisten a paper towel with Mycoplasma-ExS and wipe off all surfaces of the apparatus. Wipe to dryness with a new paper towel.</p> <p><u>Disinfection of CO<sub>2</sub> incubator</u></p> <p>The incubator should be off and empty before treatment with Mycoplasma-ExS. Spray thoroughly and leave on Mycoplasma-ExS for 5 minutes. Subsequently, wipe the surface of the incubator to dryness with a paper towel.</p>
Storage & Stability	Stable at room temperature (RT). Mycoplasma-ExS should be stored and used at RT.
Related Products	For elimination of mycoplasmas in cell cultures, we recommend using our Mycoplasma-EX kit (order #: PK-CC91-4003). For convenient and sensitive detection of mycoplasma or bacterial contamination, we recommend using our PCR Mycoplasma Test Kits for conventional or Real-Time PCR (order #: PK-CA91-1024, PK-CA91-1048, PK-CA91-1096 or PK-CA91-3025A/PK-CA91-3025B/PK-CA91-3025C) or our PCR Bacteria Test Kits (order #: PK-CA91-2024, PK-CA91-2048) for conventional PCR.
Caution	<p><b>Use biocides safely. Always read the label, product information and MSDS before use.</b></p> <p>Although Mycoplasma-ExS Spray is not known to be harmful to health, intensive skin and eye contact as well as inhalation should be avoided. Disposable gloves and safety glasses should be worn while handling the reagent. Rooms without air condition should be ventilated after using Mycoplasma-ExS.</p> <p>For spraying turn spray nozzle from position “OFF” to the spraying symbol.</p>

## Aquaguard

Catalog Number	PK-CC-01-867-1B & PK-CC01-916-500
Quantity	50 ml (Aquaguard-1); 500 ml (Aquaguard-2)
Cleaning and Disinfecting CO <sub>2</sub> Incubators	<p>A CO<sub>2</sub> incubator is a basic piece of equipment in any laboratory involved in cultivation of in vitro cells. The culture bottles must be kept slightly opened in order to allow the penetration of CO<sub>2</sub>, and enable the formation of a bicarbonate-CO<sub>2</sub> buffer system, which is the most common buffer system for tissue culture. Leakage of medium from the culture bottles, high humidity, suitable temperature, the water tray and the air flow, all form a fertile breeding ground for the development of contaminants in the incubator, which are liable to contaminate the tissue culture in all the semi-opened culture bottles.</p> <p>As soon as contamination appears in the incubator, it is very difficult to eliminate it, and severe damage can be caused. Therefore, it is essential to systematically clean and disinfect the incubator. It is recommended to disinfect every 14 days, or at least once a month.</p>
Cleaning	The shelves and surfaces of the incubator should be cleaned with soap and water. After washing with water, dry with absorbent paper.
Disinfecting the Incubator Surfaces	We recommend using one of our highly efficient Mycoplasma-ExS, PromoCidal and Spore-EX Disinfection Sprays or Disinfection Wipes (see our catalog or website for more information) which are very effective against bacteria, fungi, viruses, and spores. It is recommended to spray the incubators thoroughly every two weeks (please see respective data sheets).
Maintaining the Water Quality in the Incubator (Tray)	<p>The water required for humidity is a source of microbial contamination which disperses in the incubator. In order to keep the water in the incubator (tray) clean and free of unwanted contaminations, we recommend <b>Aquaguard-1</b> Solution (Cat. No. PK-CC-01-867-1B), which contains a non-corrosive reagent that does not cause damage to the stainless steel or copper trays. Aquaguard-1 is non-irritating, non-volatile, and extremely effective in maintaining the water quality in the incubator tray. We recommend using Aquaguard-1 for the water trays of common incubator types. Some larger incubators may use steam-generators or atomizers to control relative humidity levels. Please ask whether Aquaguard-1 is suited for such incubators as well.</p> <p>The water should be replaced with sterile water every two to four weeks, adding 50 ml of Aquaguard-1 per 5 liters of water.</p> <p>Preventive treatment as described above will prevent damage that can be caused as a result of contamination to the tissue culture. In addition, it will also prevent the necessity of dealing with contamination that has dispersed in the incubator and causes repeated contamination of the tissue culture.</p>
Maintaining Ordinary Water Baths free of Microbial Contamination	<p><b>Aquaguard-2</b> (Cat. No. PK-CC01-916-500) has been developed for maintaining various kinds of water baths free of contaminating microorganisms such as bacteria and most fungi. Aquaguard-2 is effective against all groups of bacteria including anaerobic sulphate-reducing bacteria (SRB), and it also inhibits algal growth. Aquaguard-2 is heat-stable up to 100°C and no foam is produced when using it with circulating water baths. Avoid mixture with alkali.</p> <p>It is recommended to use 10 ml of Aquaguard-2 for each liter of water in the bath, and to repeat the procedure every 1-2 weeks. After 4-6 weeks, the water bath should be emptied, cleaned (using e.g. our PromoCidal or Spore-EX wipes; see catalog or website for more information) and refilled with water containing Aquaguard-2. (Note: To protect the water bath reliably from growth of most fungi, a dilution of 50 ml Aquaguard-2/liter of water is recommended.)</p> <p>The active ingredient in Aquaguard-2 is non-corrosive, non-volatile and does not cause any irritating effects to the skin when used in the recommended concentration. It is biodegradable. Aquaguard-2 is not suited for use in CO<sub>2</sub> incubators.</p>
Intended Use	For in vitro research use only. Not for diagnostic or therapeutic procedures.
Storage & Stability	Stable at 4°C for 3-6 months. For long-term storage keep at -20°C.

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