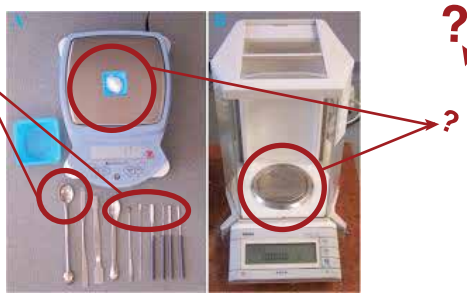
ezLab

- Medical- and Laboratory-grade water-based disinfectant
- Fast disinfection & sterilization of Laboratories' surfaces, work benches, equipment and tools

www.ezomed.com

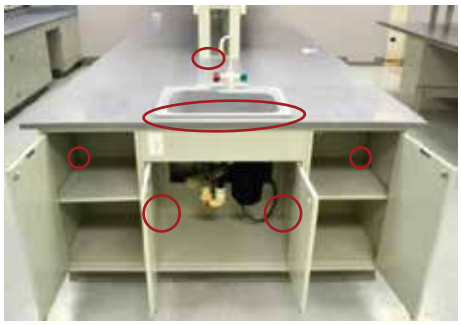
A good professional disinfection is the key in modern laboratories for quality results. It is as important as the sample preparation, since an infected working area will contaminate all the results.



Today's state-of-the-art **equipment** are becoming more sensitive, precise and accurate, reaching unprecedented levels to meet the highly demanding market continuously pushing for lower detection limits and trace analysis.

Investing in a fast and powerful disinfectant will prevent falling into:

- Repeating a test due to a suspected non-reproducible, non-repeatable, or large Standard Deviation test.
- Giving false positive results.
- Risk of carry-over when analyzing clean samples just after dirty and infected ones, and even risk of cross-contamination between infected samples.



Disinfect / Sterilize your **working area**, especially the **bench** and its **corners**, the **tools** and **Labware** you normally use, or the ones you have not used since a while, keeping in mind that bacteria & micro-organisms could be hidden in places you least suspected.

ezoLab products feature the following:

- Fast acting against viruses, fungi, bacteria, biofilms and other micro-organisms & pollutants.
- Non-hazardous, non-toxic, non-corrosive, non-flammable, non-aggressive to metals (does not contain aldehydes) and non-tainting.
- Neutral pH.
- Strong detergency, thus provides a 2-in-1 activity of cleaning and disinfecting / sterilizing at the same time.
- Powerful anti-microbial activity at low ppm.

Technical Data:

The Active Material in every ezoLab bottle (Spray of Solution) consists of Cu π-complex Quaternary Ammonium Chlorides.
It is active against a broad spectrum of micro-organisms. Time of action is within few seconds.
Patented: Registered Lebanese Patent # 10546 dated Feb 12, 2015, and it is patented by the WIPO (World Intellectual Property Organization) – International Bureau, Geneva, Switzerland with International Publication # WO2016/128868 published on August 18, 2016 for International Patent Application # PCT/IB2016/050599 filed on February 5, 2016.
International Patent Classification includes: A01N 59/20 (2006.01); A01N 33/12 (2006.01); A01P 1/00 (2006.01)
Storage temperature: 10°C - 50°C (away from direct sunlight). Shelf life: 3 years.

The Active Material in every ezoLab bottle (Spray of Solution) consists of Cu π-complex Quaternary Ammonium Chlorides

Composition: 2.5% Active Material in Water (Aqua). Details of Active Material on back cover of Brochure

Recommendations for use:

Spray the surface to clean and disinfect, wait for 30 seconds, then wipe with a clean cloth.

Benefits:

- Cedar-green sprayer security lock to prevent unintentional spraying.
- Scan/Spray dual trigger action in every stroke: spray less, reach more.
- Dual activity: cleaning + disinfecting.

ezoLab Spray part number: 25020001

Composition: 5% Active Material in Water (Aqua). Details of Active Material on back cover of Brochure

Recommendations for use as Soaking Solution:

Preparing the dilution: 2% of ezoLab Solution in water, or 1 full cap content in every 1 litre of water. 1000 ml bottle makes 50 litres of soaking solution. Diluted concentration in soaking tank: 1,000 ppm (0.1%). Soak your labware and tools for 5 minutes, while brushing, for a dual activity of cleaning and disinfecting/sterilizing then change solution after every use, as it becomes soiled, or better, save your solution, and soak for 5 minutes to disinfect/sterilize pre-cleaned or pre-washed labware and tools, and replace tank every other day.

Benefits:

- The power of disinfection and cleaning increases when used in an Ultrasonic Cleaner.

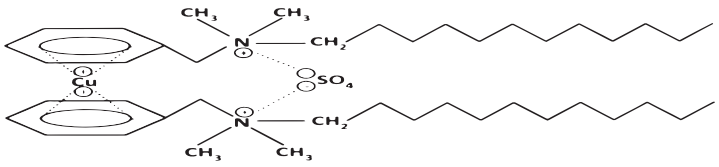
Recommendations for use as Washing Solution:

Preparing the dilution: 5% of ezoLab Solution in water, or 2 full cap content in every 750 ml of water.
1000 ml bottle makes 20 litres of wash solution (approx. 26 wash buckets).
Diluted concentration in wash bucket: 2,500 ppm (0.25%).

Benefits:

- Enjoy soapy washing with dual activity of cleaning and disinfecting / sterilizing.

ezoLab Solution part number: 25010001

Composition / Information on active material		
Active material (s)	**CAS #**	**Percent**
DDBAC (Dodecyl Dimethyl Benzyl Ammonium Chloride) / Copper π-complex 	N/A	50%
Cu π-complex C14, C16 and C18 Quaternary Ammonium Chlorides	N/A	50%

ezoLab is a π-complex of C12 Quaternary Ammonium Chloride (Dodecyl Dimethyl Benzyl Ammonium Chloride), along with π-complex of C14, C16 and C18 Quaternary Ammonium Chlorides, with ion Copper, so it benefits from both worlds (Quaternary Ammonium disinfectant + copper-based antimicrobial) with more synergy and biocidal activity but with less toxicity. The π-Complex increases dramatically the killing power over bacteria, viruses, fungi and other micro-organisms, while reducing the toxicity (vs. humans) of the product at the same time. Even without the Cu π-complex activity, the Quaternary Ammonium Chloride is FDA approved as Safe and Effective as an active for antiseptic drug products (1), and as an active ingredient for oral rinse/mouthwash (2). It exceeded the FDA-indicated minimum performance standards for bacterial reduction (3). It is also FDA approved for eye and nasal drops, leave-on skin antiseptics, hygienic towelettes and wet wipes (4) and FDA recognized as one of the best hand sanitizers (5). It is FDA Food Safety approved for 0.25 to 1 ppm (6) even allowed as a food preservative (7) and benefits from the US EPA food tolerance exemption (8) and is EPA approved to be used as a sanitizer on counter tops, utensils, appliances, tables, … and as an algaecide, … and that its Toxicity database is complete (9). It is strongly recommended as a useful virucidal agent by the NCBI – NLM – NIH USA (10), whereas Health Canada states it as active against bacteria, virus and fungi …to be used in industrial / institutional areas (schools, office buildings), hospitals, dental clinics, nursing homes, food processing and barns (11). Furthermore, EPA does not believe it poses unacceptable reproductive risks, does not believe it is a genetic toxicant, and is found to be negative for introduction of tumors (12).

On the other hand Copper is a natural antimicrobial element which, in very small quantities has the power to control a wide range of molds, fungi, algae and harmful microbes, such as Aspergillus, Bacillus, Candida, Poliovirus, and inactivates bacteria and viruses with a broad spectrum effect on flu (H1N1, H5N1 avian strain, 2009 H1N1 swine flu), as per international journals publications.

(1) for 0.1% – 0.13% w/w as per FDA FR56(140)
(2) for up to 0.1% concentrations as per FDA FR58(27)
(3) 21CFR333.470(b)(2)
(4) FDA FR56(140)
(5) FDA docket No. 75N-183H
(6) FDA FR172.165
(7) Up to 0.004% as per FDA FR172.165
(8) Up to 400 ppm of active Quaternary compound as per EPA-HQ-OPP-2008-0533 – 40CFR180.940
(9) 40CFR180.940
(10) PMID:18032831
(11) Minimum in-use concentrations of up to 450 ppm as per the hard surface disinfectants monograph
(12) 40CFR180.940

Under normal conditions of use, product will not exhibit any hazard to eyes, skin, inhalation or ingestion, will not have any carcinogenicity, embrotoxicity, and will not present any physical hazard.

Your dealer is