



Klortab NaDCC 5gr x 100 tablets hospital use

The first table includes the recommended use of Klortab NaDCC 5gr x 100 tablet (2.5gr NaDCC – 1.5gr available chlorine) product in contact with open wounds and patient skin.

Indications	Water quantity	Instructions and notes	Concentration – ppm
Therapeutic use, Open wounds, pressure sores, cracks, skin grafts, postpartum external areas	1 liter	Wet wiping	1.500
Physiotherapy and hydrotherapy pools, included burned patients.	150 liter	Patient bath	10
	2 liter	Wiping of surfaces	750
Foot care, preparing of the hands and feet before the surgical and other treatments	5 liter	Immersed for 5 minutes	300
As an adjuvant in the treatment of athlete's foot or other dermal fungi	600 ml	It is applied as a compress until it becomes feasible.	2.500
Skin preparing before surgery	600ml	Wiping the skin	2.500
Treatment of contaminated tissues	300ml	Long term wet wiping	5.000



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DISINFECTION OF THE TOOLS

The tables below have been published in the Cleaning and Disinfection of Hospitals, 1991 guide and their use has been approved by the authorities. Disinfection with KLORTAB NaDCC tablets; It is a very effective method for devices and instruments and especially products that are heat sensitive or not suitable for hot sterilization due to various other reasons. However, since it is chlorine donor to Troclozene, the KLORTAB solution in which the instruments will be immersed must be in a plastic carrier and the dipping time specified in the table must be followed.

Although it can be used for good quality stainless steel, KLORTAB solution should never be used for nickel plated instruments.

Type of disinfection	Water quantity	Instructions and notes	Concentration – ppm
TOOLS Dialyse machine	1 liter	Ask for specific detailed information	5.000 (for this concentration Klortab NaDCC 17,4gr X 60 tablet is recommended)
Endoscope / retroscope and clean heat sensitive tools (not nickel plated)	2 liters for high level urgent disinfection 50% isopropanol	Immersed for 15 and 20 minutes, after rinsed by sterile water and dry	750
Respiratory catheters and masks and suction catheters	2 liters	Immersed for 15 and 20 minutes, after rinsed by sterile water and dry	750
Ressuscitation apparats, AMBU, ICU / dialyse control panels	2 liters	Wiping the outer surfaces	750
Plastic hoses, glass, plastic or stainless steel materials	2 liters	After used, immersed for 15 – 20 minutes	750
Preparing surfaces, operation table, laminar flow hood, furniture	2 liters	Wiping wet clothes	750
Thermometers, mercury and dry digital	2 liters	Wiping with clean and wet clothe for 1 minute and dry	750
Medicine boxes	2 liters	Wiping with clean and wet clothe for 1 minute and dry	750
Tonometers (prophylactic among patients)	1 liter	Wiping with wet clothe and dry	1.500
Otoscope headphones	2 liters	Immersed for 10 minutes, rinsing by water	750



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Milk Kitchens

The use of KLORTAB NaDCC tablets in large-scale disinfection of baby bottles is more convenient than other methods. This method allows heat sensitive plastic bottles to be used longer. The pH level of the solution prevents the formation of milk accumulation, thus extending the lifetime of the bottles and the bottles always remains transparent.

Disinfection type	Water quantity	Instructions and notes	Concentration – ppm
Disinfection of baby bottles, pacifiers, caps	10 liters	It is immersed in the solution for 30 minutes or as needed, paying attention to the absence of air bubbles.	150
Milk pumps	10 liters	As described above	150

Postpartum Use

Klortab NaDCC 5gr tablets can be used as a compress on the outer reproductive organs to reduce pain due to swelling and are also anti-infectious.

Klortab 5 gram tablets (2,5gr NaDCC = 1,5 gr chlorine) can be used for the cleaning and disinfection of houses. It is recommended to housewife for cleaning and disinfection of baby bottles, pacifiers etc.

Disinfection solutions, which were prepared as Baby Bottle Disinfection Tablets a while ago, are widely used in Europe, America and other parts of the world (Motercare, Nuk, Prenatal etc). Klortab NaDCC tablets are produced regularly and the process of biocidal product registration, the tests conducted by Istanbul Yeditepe University and Izmir Ege University, its effectiveness against pathogenic test bacteria (E. Coli, Pseudomonas, S. Aureus, E. hiare) and fungi that cause thrush infection in babies such as C. Albicans and Polio, Adenoviruses and Murine Norovirus has been proven. In the tests performed in Ege University Drug Development and Pharmacokinetics Research & Application Center, 5 logs (99.999%) against E. Coli, P. Aeruginosa, S. Aureus and E. Hirae and 4 logs against C. Albicans, (99,99%) reduction was determined. The test solution of 15ppm was applied at 20⁰ C for 5 minutes, and the blocking agent was bovine albumin. The concentration applied to microorganisms stuck on the glass (this equates to bacteria sticking to a plastic bottle or a silicone or rubber teat).

Klortab NaDCC applied in room temperature and disinfected glasses, plastics and rubbers. Even if the baby bottles are completely cleaned, bacteria are still active even in the presence of 2% (volume / volume) milk. The same solution can be used for disinfection within 24 hours for different amounts of baby bottles and pacifiers, therefore they are very economical choosen. The baby bottles and pacifiers can be left in the solution until using and before using, rinsing by the water. Generally, the baby bottles and pacifiers can be disinfected until the baby is six months old.



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Microbiological pollution

The hazardous substance problem caused by contaminated substances should be taken seriously for both employees and patients. Even a small scratch of the used needle can have devastating consequences. All possibly contaminated materials must first be disinfected, even if they are to be disposed of.

According to an English saying: "To know something well, to know something leads to contempt."

Disinfection type	Water quantity	Instructions and notes	Concentration – ppm
POLLUTIONS Blood and serum rash, polluted single use syringes, used sample boxes	300ml ♠	They are left in a closed container for 1 hour.	5.000
Sheets, work clothes and other soiled covers.	300ml ♠	They are pressed into the solution. CAN WHITEN	5.000
The sinks for wastes	300ml ♠	The solution is poured into the sink after each nurse shift	5.000
Polluted surfaces Moldy walls	2 liters	Washing with additional detergent	750

♠: Klortab NaDCC 17,4gr x 60 tablets can be used for high level disinfection. 1 tablet of Klortab NaDCC 17,4gr to 1 liter water has 5.000ppm available chlorine.

Klortab NaDCC tablets are also used effectively as an anti-odor urine. 1 tablet to be thrown into the hole of the toilet will remove the residues accumulated there. At the same time, 1 tablet to be dissolved in the reservoir disinfects both the water and the interior of the toilet.



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Clinical laboratory using of KLORTAB NaDCC tablets

Disinfection type	Water quantity	Instructions and notes	Concentration – ppm
Blood and serum spills, polluted single use syringes, user sample jars, microscope slides, pipettes etc.	300ml	They are left in a closed container for 1 hour.	5.000
Instruments covered with coagulated blood	300ml		5.000
Body fluids, urine and others	300ml	The tablet is thrown directly into the liquid.	5.000
The sinks for wastes	300ml	The solution is poured into the sink after each nurse shift	5.000
Polluted laboratory clothes and aprons	300ml	They are pressed into the solution for a night. CAN WHITEN	5.000
Plastic hoses, glass, plastic ic and stainless steel materials	2 liters	After used, immersed for 15 – 20 minutes	750
Preparing surfaces, operation table, laminar flow hood, furniture, desks	2 liters	Washing with additional detergent	750

Klortab NaDCC 17,4gr x 60 tablets can be used for high level disinfection. 1 tablet of Klortab NaDCC 17,4gr to 1 liter water has 5.000ppm available chlorine.

Pharmacy using of KLORTAB NaDCC tablets

Dezenfeksiyon cinsi	Su miktarı (litre)	Talimatlar ve notlar	Ppm olarak konsantrasyon
Preparing surfaces, operation table, laminar flow hood, furniture, desks	2 liters	Wipe	750
Clean room surfaces, formica, stainless steel and similar surfaces, trays, smooth walls	2 liters	Wipe or wash	750
Disinfection of medicine bottles before preparation. To prevent the growth of fungi in non-sterile pharmaceutical preparations	10 liters	It is immersed in the solution for 30 minutes, paying attention that there are no air bubbles. It is emptied and dried	150
Despite sterilization, the method of pre-sterilization of bottles for sterile preparations has not yet been accepted. It is used only for "externis" or "per os" preparations. Note: some drugs can be oxidized and the bottles are only rinsed with boiled water in this case.			

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Dental clinic using of KLORTAB NaDCC tablets

Disinfection type	Water quantity	Instrucions and notes	Concentration – ppm
Preparing surfaces, desks, formica surfaces, trays	2 liters	Washing with additional detergent	750
Disinfection of heat sensitive and other instruments Plastic, glass, rubber, stainless		Immersed for 15 minutes	
Sanitation of Dental Bridges	500ml	Immersed for 3 - 5 minutes. Note: the pollution cleaned	3.000
Mouth washing anti-mycotic, ante bacterial	15	During the treatment and pre-operation	100
Root canal washing Antiseptic, hemostat, anti-edema	1	Neutral pH, pain killer	1.500
Disinfectant	500ml		3.000
Polluted tissues	300ml	Kill the hepatitis and AIDS (in-vitro)	5.000
Polluted instruments (light pollution)	5	Immersed for 30 minutes	300
Polluted instruments (HIV + Hepatit)	300ml	Immersed for 10 minutes	5.000

Home use of Klortab NaDCC tablets

Disinfection type	Water quantity	Instructions and notes	Concentration - ppm
Disinfection of baby bottles and pacifiers Milk pumps	10	It is immersed in the solution for 30 minutes or as needed, paying attention to the absence of air bubbles.	150
Disinfection of plates and glasses during illness	10	Washing for 15 minutes and rinse	150
Lice comb and hair brush	2	Immersed for 5 minutes after used.	750
Toilets, bed pans, bidets	2	If necessary adding detergent. The tablet is thrown directly into the toilet bowl and into the water tank.	750
Fruits and vegetables	10	Immersed for 10 minutes and rinse	150
Urine deodorizer	2 liter collection bag	1 tablet	750



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Klortab NaDCC tablets – Biocidal Features

Klortab NaDCC tablets have a broad biocidal spectrum and are active against pathogenic bacteria and all types of microorganisms, including spores, viruses, fungi and unicellular microorganisms such as molds and amoebas. Trochlosene sodium has distant biocidal activity against inorganic hypochlorite solutions. This is partly due to the much lower pH value of trochlosene sodium (5.5 - 6.0), and the amount of chlorine that remains unresolved has a much higher biocidal activity than dissolved forms. The products that break down immediately due to their biocidal effect (donating chlorine atoms) have the advantage of acting as a stabilizer for rebalancing the unresolved trochlosene molecule. This explains why chlorine in latent form is less inactivated against organic substances.

Factors affecting biocidal activity:

a. pH effect

As stated above, the pH level of the solution is slightly acidic (5.5 - 6.5). If compared with hypochlorite solutions, free available chlorine is the sum of dissolved and undissolved ions, ie HOCl + [OCl]. This condition is normally defined as milligrams per liter (mg / liter) and equals parts per million (ppm). However, the [HOCl] ion has 1/100 of the biocidal efficacy of HOCl and the pH-related ratios of both forms indicate that the biocidal capacity is dependent on the pH level. Although hypochlorites have a very high concentration but they have very low biocidal potential.

pH	5,0	5,5	6,0	6,5	7,0	7,5	8,0	8,5	9,0	9,5	10,0	10,5	11,0
	99,7	99,2	97,4	92,4	79,3	54,8	27,7	10,8	3,7	1,2	0,38	0,12	0,04

b. Concentration effects

High concentration (amount of free chlorine in ppm) has higher biocidal activity when stable pH and temperature are maintained.

c. Heat effect

Increasing the solution temperature increases the biocidal activity.

d. Time

Increasing the concentration and temperature together will increase the biocidal activity.

e. Water hardness

The water hardness is not effected to biocidal activity of Klortab NaDCC tablets.

f. Organic matters

Biocidal activity of Klortab NaDCC Disinfection Tablets is more sensitive to mixing organic substances than other chlorine compounds. This has been demonstrated many times by experimental evidence.

Available chlorine

In order to obtain the best equality of the BIOCIDAL CAPACITY of sodium dichloroisocyanurate, it is necessary to measure the HIDDEN FREE CHLORINE in concentration and this process determines the actual available chlorine amount in ppm for disinfection at the stable pH level of Sodium dichloroisocyanurate.



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