Kiyo-T™ CDX

Instrument Disinfectant

Composition

Glutaraldehyde -2.45% w/v with activator
Inert ingredients

Bactericidal, Virucidal, Fungicidal,
Sporicidal, Tubercolocidal

Kiyo-T CDX

Kiyo-T CDX is a high level disinfectant with activator for surgical instruments

Mode of Action

The action of glutaraldehyde is identical at the riboand deoxyribonucleotide levels, except for guaniribo-deoxyribonucleotides. The 5' (GMP (deoxy-guanosine monophosphate) interacts more rapidly with glutarldehyde than 5' GMP. The reaction with receptive nucleotides occurs rapidly and the equilibrium shifts towards hydroxymethylation. This action is pH-dependent, working better at alkaline pH and less well at neutral or acid pH. The action of glutaraldehyde is favoured by an alkaline PH (e.g. 8.0), but the solution is less stablein such conditions, the molecule is polymerised and the disinfectant activity decreases. The addition of inorganic cations has been proposed, in combination with the effect of alkaline pH, to increase bactericidal activity. The activity of glutaraldehyde is increased in the presence of magnesium ions (Mg + +),as more cellular alkaline phosphatase (PAse) is released. The PAse is found to be entirelylocalised in the periplasmic space at pH 6.8, whereas half of the PAse is released into theextracellular medium at pH 7.4. This may explain the observed difference in activity between acid and alkaline glutaraldehyde-based formulations. The presence of divalent cations at alkaline pH reinforces the bactericidal activity by concentration of the wall and/or plasmolysis of the bacterial cell. This potentiation of glutaraldehyde activity in the presence of Mg++ has also been reported in moulds and spores.

FEATURES

- Achieves disinfection within 45 minutes.
- Complete sterilisation within 8-10 Hrs.
- Long lasting- Up to 14- 28 days depending upon bacterial load.
- Excellent Microbial activity.
- Non corrosive.

Directions For Use

Proper cleaning of surface is required to remove blood and other residuals from the device. Thoroughly rinse and dry the instrument before immersing in Kiyo-T CDX mix the activator provided with bottle in to the solution and immerse the device for min 45 min at 25*c to achieve High level disinfection. After removing the devise from Kiyo-T CDX wash it thoroughly with large volume of sterile water.

Area of Application

Ideal product for uses in OT, CSSD, and Labs for disinfection of Instruments made of Stainless steel, plastics, rubber, ceramics, rigid and flexible endoscopes.

Shelf life

It is stable up to 14 days despite repeated reuse.
Contact Time 45 Min.

Material Compatibility

Kiyo-T CDX is compatible with most of the metals, Plastics elastomers and adhesives.

Physical & Chemical Properties

Colour - unactivated - colourless

PH - unactivated - 3-4.6
activated - 8.2-9.2

Storoage - Below 10°C

Precautions

For external use only.
Avoid direct contact with eyes & skin.
Rinse with fresh water in case of contact.
Seek medical help in case of emergency.
Keep out of reach of children.
wear mask, goggle, gloves.

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