

## Mild Silver Protein

Chemical formula :-Variable

It is a silver rendered colloidal by the presence of, or in combination with protein .

### **Properties:-**

Colour:- dark brown or almost black

Odour:- odourless

Nature:- shining scales or granules

Solubility:-It is freely soluble in water, but almost insoluble in alcohol, chloroform and ether.

Storage:-It is affected by light therefore should be protected from light.

## 2 **Action & uses:-**

1) 0.5% to 20% sol is used as antibacterial. the release of  $\text{Ag}^+$  ions tends to increase with dilution & therefore more dilute sol becomes irritating. on aging sol becomes more irritant & a ppt is formed. therefore sol of mild silver protein should be always prepared freshly which contain suitable stabilizers.

### **Uses:-**

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- The Solution due to its low irritability usually employed as local antibacterial on mucous membranes in nose, throat, & conjunctiva of eye.
- for irrigation of urethra & bladder.
- its major effectiveness in the treatment of gonococcal infection. Also used in respiratory tract infections & also as prophylactic against respiratory infection.
- Mercury with chalk act as purgative due to irritant action of Hg ion.
- As it is toxic it is not used medicinally.
- best bacteriostatic.

**note:-** Prolonged use of mild silver protein may result in darkening of skin due to the deposit of free silver below epidermis.

## Mercury

Synonym:-Hydragyrum , quick silver (Hg)

- Colour:- bright shiny silvery White
- Odour:- odourless
- Nature:-liquid at room temp

Storage :-

- Should be stores in tightly closed containers .
- **Action & uses:-**
- Cathartic & parasiticide
- Also used in the treatment of syphilis & as diuretic
- But it is extremely poisonous & prolonged **inhalation** in minute quantity may be **fatal**.



## Yellow Mercuric Oxide

Chemical Formula:-HgO

Mol.Wt: 216.6

- Colour:-Yellow to orange according to temp at time of preparation
- Odour:- odourless
- Solubility:- in Soluble in water& alcohol but soluble in acids

Storage :-

- Should be stores in tightly closed containers .protected fro light
- Chemical properties:-
- Stable in air
- form red oxide slowly develops on exposure to light.

## **Action & Uses:-**

- local antibacterial.
- also mild antiseptic action used in ophthalmology for treating no. of inflammatory conditions.
- also used for the treatment of fungal infection of the skin & infestations of body lice.