

**34. Hibitane solution 0.05%**

1. Used for general skin disinfection (*British National Formulary* 51st edn, p 607).
2. The recommended strength for this purpose is 0.05% or 1 in 100 dilution of 5% concentrate (*British National Formulary* 51st edn, p 607).
3. In order to prepare this product we need to dilute a concentrate that is commercially available. Hibitane Concentrate 5% is the strength easily obtainable.

0.05% means 50 mg per 100 ml, therefore 75 mg per 150 ml

Our concentrate contains 5 g in 100 ml

Therefore 500 mg in 10 ml

Therefore 50 mg in 1 ml

Therefore we need 1.5 ml = 75 mg

	Master	50 ml	150 ml
Hibitane Concentrate 5%	1 ml	0.5 ml	1.5 ml
Freshly boiled and cooled purified water	to 100 ml	to 50 ml	to 150 ml

4.
  - a. The Hibitane concentrate is miscible with both water and alcohol (*British National Formulary* 51st edn, p 607).
  - b. Freshly boiled and cooled purified water would be the vehicle of choice as the preparation is being used as a skin disinfectant.
  - c. Not applicable.
  - d. Not applicable.

The following method would be used to prepare 150 ml of Hibitane solution 0.05% from the formula above:

1. Measure 1.5 ml Hibitane Concentrate 5% using a syringe.
  2. Measure approximately 100 ml of freshly boiled and cooled purified water and transfer to a beaker.
  3. Add the Hibitane Concentrate 5% to the water in the beaker.
  4. Stir to aid dissolution.
  5. Transfer to a 250 ml conical measure with rinsings.
  6. Make up to volume with freshly boiled and cooled purified water.
  7. Transfer to a 150 ml fluted amber medical bottle with a child-resistant closure and label.
5. A fluted amber bottle with a child-resistant closure would be most suitable as the preparation is a solution for external use.
  6.
    - a. The product is unofficial, therefore the following title would be suitable: 'Hibitane Solution 0.05%'.
    - b. The product is unofficial, therefore it is necessary to put the quantitative particulars on the label. As the product is intended for external use, the quantitative particulars would be expressed per container.

Each 150 ml contains:

Hibitane Concentrate 5%	1.5 ml
Freshly boiled and cooled purified water	to 150 ml