

Boric acid solution

- This solution is prepared in a conc. 4% w/v (for skin preparation) and 2% w/v (for eye preparation).
- This solution is prepared by simple dissolution of boric acid in hot water.
- The prepared solution must be clear and free from crystals.
- It is used as a topical antiseptic for eye mucosa, nasal mucosa and throat mucosa. Do not use it on the opened wounds.



Practical Part

Boric acid solution

For skin

Rx

<i>Boric acid</i>	<i>40gm</i>
<i>Distilled water</i>	<i>1000ml</i>

For eye

Rx

<i>Boric acid</i>	<i>20gm</i>
<i>Distilled water</i>	<i>1000ml</i>

Uses:

As a topical antiseptic.

Role of each ingredient:

Boric acid:

Distilled water:

Calculation:

① For skin (4%)

▶ Send: 50 ml

1. Conc. of active ingredient: 4%

2. Factor= 50/1000 = 1/20

or 40 g \longrightarrow 1000ml
 X \longrightarrow 50 ml

3. free vehicle= 50 ml

℞		× 1/20
Boric acid	40 gm	2 gm
Distilled water	to 1000 ml	to 50 ml

X=2 gm

② For eye (2%)

▶ Send: 30 ml

1. Conc. of active ingredient: 2%

2. Factor= 1000/30 = 33.333

or 20 g \longrightarrow 1000ml
 X \longrightarrow 30 ml

3. free vehicle= 30 ml

℞		÷ 33.333
Boric acid	20 gm	0.6 g
Distilled water	to 1000 ml	to 30 ml

X= 0.6 g

Procedure:

Dissolve boric acid in boiling water then pure the solution in bottle

Label:

(Red)

sig.: use as directed

① for skin

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② for eye

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