

## A FORMULA FOR A NEW TYPE OF A SALINE ANTISEPTIC SOLUTION.\*

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The number of formulas for antiseptic solutions is legion and the types into which they naturally divide themselves are numerous. They may be acid in reaction and contain about 20 per cent. of alcohol, like the official *Liquor Antisepticus*, or they may be of the alkaline type and contain glycerin, like the *Liquor Antisepticus Alkalinus* of the N. F.

For both of these types new formulas have been proposed by me and there is a third type, recently coming into prominence and attaining quite a degree of popularity, for which I would like to propose a formula also. This is a type which is slightly saline and distinctively alkaline, but which contains no glycerin and no appreciable amount of alcohol. The formula is as follows:

Sodium chloride.....	5 gm.
Sodium borate.....	5 gm.
Sodium bicarbonate.....	10 gm.
Oil of spearmint.....	1 cc.
Oil of eucalyptus.....	0.5 cc.
Menthol.....	0.1 gm.
Alcohol.....	5 cc.
Fluidextract of hydrastis (aqueous).....	2 cc.
Water, q. s. to make.....	1000 cc.

Dissolve the salts in 750 cc. of water. Dissolve the oils and menthol in the alcohol. Mix the alcoholic solution of the oils with 5 gm. of magnesium carbonate and triturate gradually with the aqueous solution of the salts. Filter and add the fluidextract of hydrastis and finally add enough water through the filter to make 1000 cc.

This solution makes an excellent wash for the mouth or nose, either full strength or diluted with water, as preference indicates.

### DISCUSSION.

CHAIRMAN NITARDY:—"I will ask Mr. Hall to discuss this paper."

MR. HALL:—"I regret I have not the sample which I prepared here, to show you. It is a very easy preparation to make and results in a brilliantly clear article, without a trace of opalescence. It is a delightfully fragrant preparation and taken in the mouth, either clear or diluted it makes a very pleasant mouth-wash. Of course the presence of five grams of salt in a thousand c.c. leaves just a little saline taste, that is about half of a normal salt solution. Then the golden-seal gives the preparation just a tinge of color, a very pale lemon-color, but as you see it in a pint or a quart bottle it is a preparation that is very attractive to the eye. It leaves a very pleasant taste in the mouth with that touch of salinity which makes it very palatable. Being flavored with spearmint it is very agreeable to taste."

MR. NITARDY:—"Mr. Hall's description gives us a very clear idea of the preparation, even though he has not brought the sample with him."

MR. GREY:—"I would suggest that Berberine might be used instead of aqueous hydrastis. I understand it is used in the preparation called 'Murine.'"

MR. HALL:—"It is but a small amount that is in the preparation, perhaps it is there simply for the color. There is not enough for any medicinal effect, except upon the sensitive nerves there."

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