Modified WHO formulations for surgical hand preparation

**Formulation I**

Final concentrations: ethanol 80% wt/wt, glycerol 0.725% vol/vol, hydrogen peroxide 0.125% vol/vol.

**Ingredients:**

1. ethanol (absolute), **800 g**
2. \( \text{H}_2\text{O}_2 \) (3%), **4.17 ml**
3. glycerol (98%), **7.25 ml** (or \( 7.25 \times 1.26 = 9.135 \text{ g} \))
4. top up to **1000 g** with distilled or boiled water

**Formulation II**

Final concentrations: isopropanol 75% wt/wt, glycerol 0.725% vol/vol, hydrogen peroxide 0.125% vol/vol.

**Ingredients:**

1. isopropanol (absolute), **750 g**
2. \( \text{H}_2\text{O}_2 \) (3%), **4.17 ml**
3. glycerol (98%), **7.25 ml** (or \( 7.25 \times 1.26 = 9.135 \text{ g} \))
4. top up to **1000 g** with distilled water

Quality assurance and efficacy must be assured.

**Sources:**