

# 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. H<sub>2</sub>O<sub>2</sub> (3%), **4.17 ml**
3. glycerol (98%), **7.25 ml** (or  $7.25 \times 1.26 = 9.135$  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. H<sub>2</sub>O<sub>2</sub> (30%), **4.17 ml**
3. glycerol (98%), **7.25 ml** (or  $7.25 \times 1.26 = 9.135$  g)
4. top up to **1000 g** with distilled water