

## Starting Formulation

Product: **Protective Hand Sanitizer Fluid Gel with 1% Nicomenthyl® 20**

Code 2010092

Date 13/10/20

Phase	Ingredients	INCI Composition	Function	Conc. %
A1	Demineralized water	Aqua	Solvent	q.s. to 100
A2	Hydroxyethylcellulose medium viscosity	Hydroxyethylcellulose	Thickening agent	1.5
A3	Alcohol denat.	Alcohol denat.	Solvent	30
B1	Nicomenthyl 20	Menthyl nicotinate	Skin Protecting active	1
B2	Tween 80	Polysorbate 80	Solubilizer	1
B3	Butylene glycol	Butylene glycol	Solvent humectant	5
B4	Alcohol denat.	Alcohol denat.	Solvent	33
C1	Lactic acid 80%	Lactic acid, Aqua	pH modifier, preservative	q.s. to pH 5.5 – 6.0

### Manufacturing method:

Mix all the hydrosoluble ingredients (phase A) as per the above order of addition, with moderate agitation, at room temperature, until uniformly and well dissolved (approx. half an hour).

Add the liposoluble ingredients (phase B) and mix with moderate agitation until a well dispersed transparent fluid gel is formed.

Adjust formulation pH by adding phase C as required.

**Appearance:** Transparent homogeneous fluid gel.