Student name:

Fac. №

1. Medicinal product:	Fenistil
2. Dosage form:	Hydrogel

3. Composition:

3.1. Active ingredients (drugs): Dimethidene maleate

3.2. Excipients:	**Function:**
Carbomer	gelling agent
Propylenglycol	co-solvent; water-retention agent
Purified water	liquid base for gelling
Sodium hydroxide	alkalizing agent
Benzalkonium chloride	preservative
Disodium EDTA	preservative, antioxidant

3.3. Rationale for the use of the excipients:

The purified water is the liquid in which carbomer swells and results in gel formation.
Propylenglycol is also liquid, has co-solvent properties and retains water in the final product.
Carbomer is a synthetic polymer based on acrylic acid which is used as a gelling agent in the preparation of a hydrogel.
Sodium hydroxide is used to achieve the required pH in order for the gelling of carbomer in water.
Benzalkonium chloride and disodium EDTA are used to increase the stability of the product and they maintain its microbiological stability.

4. Suggest technology of preparation:

The hydrogel preparation includes the following steps:

- Carbomer swelling in water
- Incorporation of the Active ingredient
- addition of stabilizing excipients and alkalizing agent

5. Control parameters according to Ph.Eur.: