

Method for producing gel composition containing atorvastatin for the treatment of generalized periodontitis in patients with coronary heart disease. Purified water is added to 1 part of carbomer 980 to make a total of 50 parts, mixed, and allowed to gel for 3–4 hours; 1.2 parts of atorvastatin calcium are added to another container, followed by 10 parts of 96% ethanol to form a suspension, which turns into a solution after adding 12 parts of 1,2-propylene glycol. Additionally, in another container, 10 parts of xylitol are dissolved in 17 parts of purified water. To the resulting gel-like mass containing 2% carbomer, 0.5 parts of a 20% solution of alcohol-propylene glycol solution of atorvastatin chlorhexidine bigluconate are added, as well as 27 parts of a concentrated xylitol solution, and triethanolamine is added dropwise, with stirring, until a pH of 5.3 is reached. Wherein, a preparation is produced with the following ratio of components, by mass %:

|                                   |                  |
|-----------------------------------|------------------|
| atorvastatin calcium              | 1.2              |
| 20 % chlorhexidine<br>bigluconate | 0.5              |
| xylitol                           | 10               |
| carbomer 980                      | 1                |
| 1,2-propylene glycol              | 12               |
| ethanol 96 %                      | 10               |
| triethanolamine                   | to pH<br>5.2-7.0 |
| purified water                    | to 100.          |