

*Example of an exam card*

Federal State Budgetary Educational Institution of Higher Education  
"Volgograd State Medical University"  
Ministry of Health of the Russian Federation

Department: **Pharmaceutical, toxicological chemistry, pharmacognosy and botany.**  
Discipline: **Internship In Quality Control Of Medicines**  
Speciality at the speciality **33.05.01 Pharmacy**  
Academic year: **2024 – 2025**

**EXAMINATION CARD № 1**

- 1 Evaluate the quality of the substance 'Boric acid' by the indicator 'Description'.
2. Evaluate the quality of purified water by the content of impurity of chlorides.
3. Determine the purity and limits of the impurity content of 'Calcium salts' in the substance 'Sodium hydrogen carbonate' in accordance with the requirement of regulatory documentation.
4. Calculate the content of boric acid according to the results of quantitative determination by titrimetric method:

To 0.8968 g of substance was added 100 ml of 20% solution of mannitol, previously neutralised by phenolphthalein 0.1 M sodium hydroxide solution, heated until complete dissolution, cooled and titrated with 1 M sodium hydroxide solution with the same indicator until the appearance of non-vanishing pink staining. 13.9 ml of 1 M NaOH solution was used for titration of the substance.

1 ml of 1 M sodium hydroxide solution corresponds to 61.83 mg of boric acid.

Seal place

Head of department

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