

**Control-Measurement materials
of Subject «Chemistry»
Specialty «Stomatology»**

Theme: «Obtaining lyophobic colloidal solutions»

Variant 1.

1. Disperse systems and their classification. Common principles of colloidal solutions obtaining.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
BaCrO ₄	BaCl ₂

Variant № 2.

1. What systems called disperse? What is disperse phase and dispersion environment?
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
BaCrO ₄	K ₂ Cr ₂ O ₇

Variant № 3.

1. What systems are included in lyophilic and in lyophobic colloidal solutions?
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
Fe ₄ [Fe(CN) ₆] ₃	K ₄ [Fe(CN) ₆]

Variant № 4.

1. Enumerate the conditions for colloidal systems obtaining.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
[Cu (NH ₃) ₄](OH) ₂	(NH ₄) ₂ SO ₄

Variant № 5.

1. Enumerate dispersion methods of colloidal solutions preparing.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
Cu ₂ [Fe(CN) ₆]	K ₄ [Fe(CN) ₆]

Variant № 6.

1. Enumerate condensation methods of colloidal solutions preparing, give examples.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
Cu ₂ [Fe(CN) ₆]	CuSO ₄

Variant № 7.

1. Enumerate basic conditions of sols preparing using solvent change method.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
AgBr	AgNO ₃

Variant № 8.

1. Describe combined methods of preparing of colloidal solutions (peptization, electrical methods).
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
HgI ₂	Hg(NO ₃) ₂

Variant № 9.

1. Give definition for peptization. Give examples of colloidal solutions prepared using peptization.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
Ag ₃ PO ₄	AgNO ₃

Variant № 10.

1. Why electrical method and peptization method are called combined methods of sols preparing.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
HgI ₂	K ₂ [HgI ₄]

Variant № 11.

1. Enumerate methods of colloidal solutions purification.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
PbCrO ₄	K ₂ CrO ₄

Variant № 12.

1. Describe methods of colloidal solutions purification.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
PbI ₂	KI

Variant № 13.

1. Fajans–Paneth rule.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
Ag_2CrO_4	K_2CrO_4

Variant № 14.

1. Forming of double electrical layer on interphase surfaces.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
CdS	H_2S

Variant № 15.

1. Peptization method of colloidal solutions preparing.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
$\text{Al}(\text{OH})_3$	AlCl_3

Variant № 16.

1. Describe methods of colloidal solutions preparing.
2. Write micelle formula and call its parts.

Disperse phase	Stabilizer
PbMoO_4	$\text{Pb}(\text{NO}_3)_2$