

Studies of “Bio-gel” and its pesticide compositions effect on soybean seedlings

The effect of pesticides and different Bio-gel concentrations on soybean seedlings has been studied. The following variants of mixes for soybean treatment have been made for the purpose:

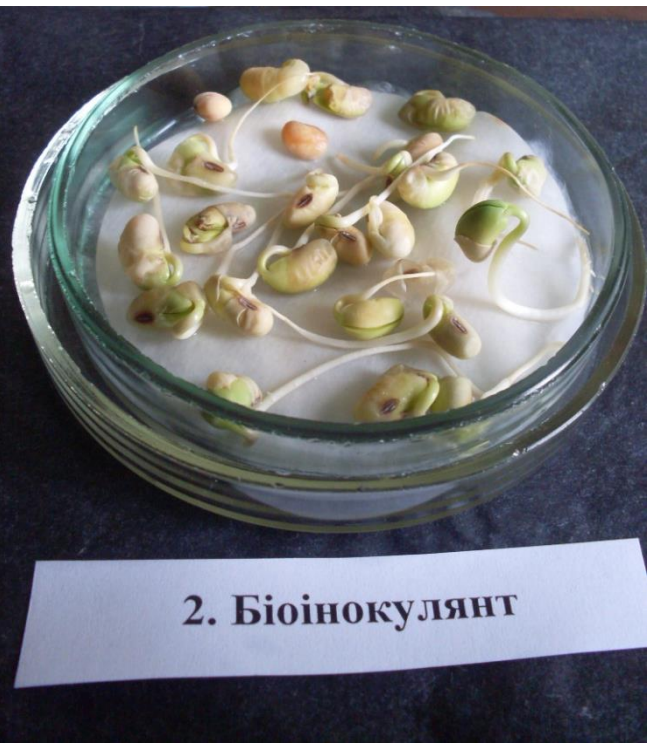
1. H₂O – control;
2. Bioinoculant – preparation based on inoculants;
3. 0.1% Bio-gel;
4. 1.0% Bio-gel;
5. 1% Bio-gel + X – 1% Bio-gel + “Harness” herbicide, recommended doses are applied;
6. 1% Bio-gel + K – 1% Bio-gel + “Caliph” fungicide, recommended doses are applied;
7. Bioinoculant + K – preparation based on inoculants + “Caliph” fungicide, recommended doses are applied;
8. 0.1% Bio-gel + X – 0.1% Bio-gel + “Harness” herbicide, recommended doses are applied;
9. Bioinoculant + X – preparation based on inoculants + “Harness” herbicide, recommended doses are applied;
10. 0.1% Bio-gel + K – 0.1% Bio-gel + “Caliph” herbicide, recommended doses are applied;
11. X + “Harness” herbicide, recommended doses are applied.

Soybeans were soaked for 15 minutes in the solutions, after that 25 beans from every solution were placed in Petri dishes in moist chamber. During the first two days dark phase was imitated. On the 4th day records were made of soybeans germination and seedlings affection.

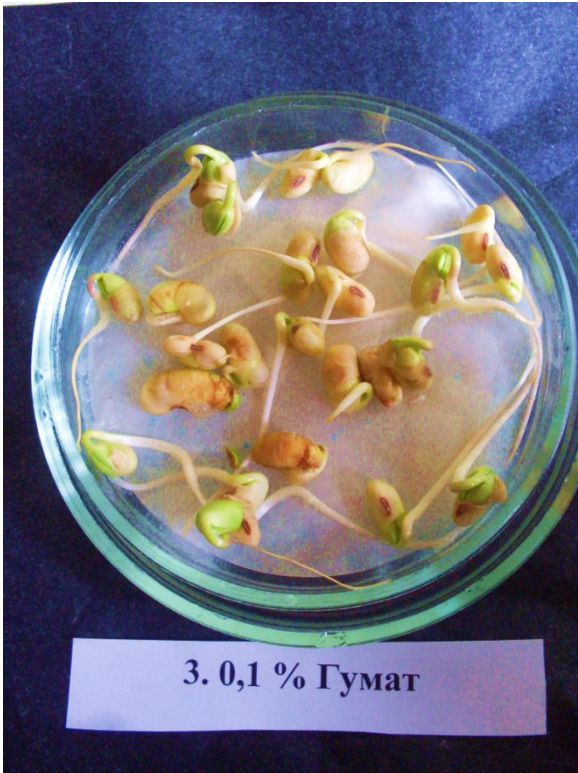
Bio-gel improves soybeans germination, treatment with pesticides decreases germination, while bioinoculant does not influence soybeans germination



1. H₂O



2. Біоінокулянт



3. 0,1 % Гумат



4. 1 % Гумат



5. 1% Гумат + X



6. 1% Гумат + К



7. Біонокулянт + К



8. 0,1% Гумат + X



9. Біоінокулянт + X



10. 0,1 % Гумат + К



11. X