



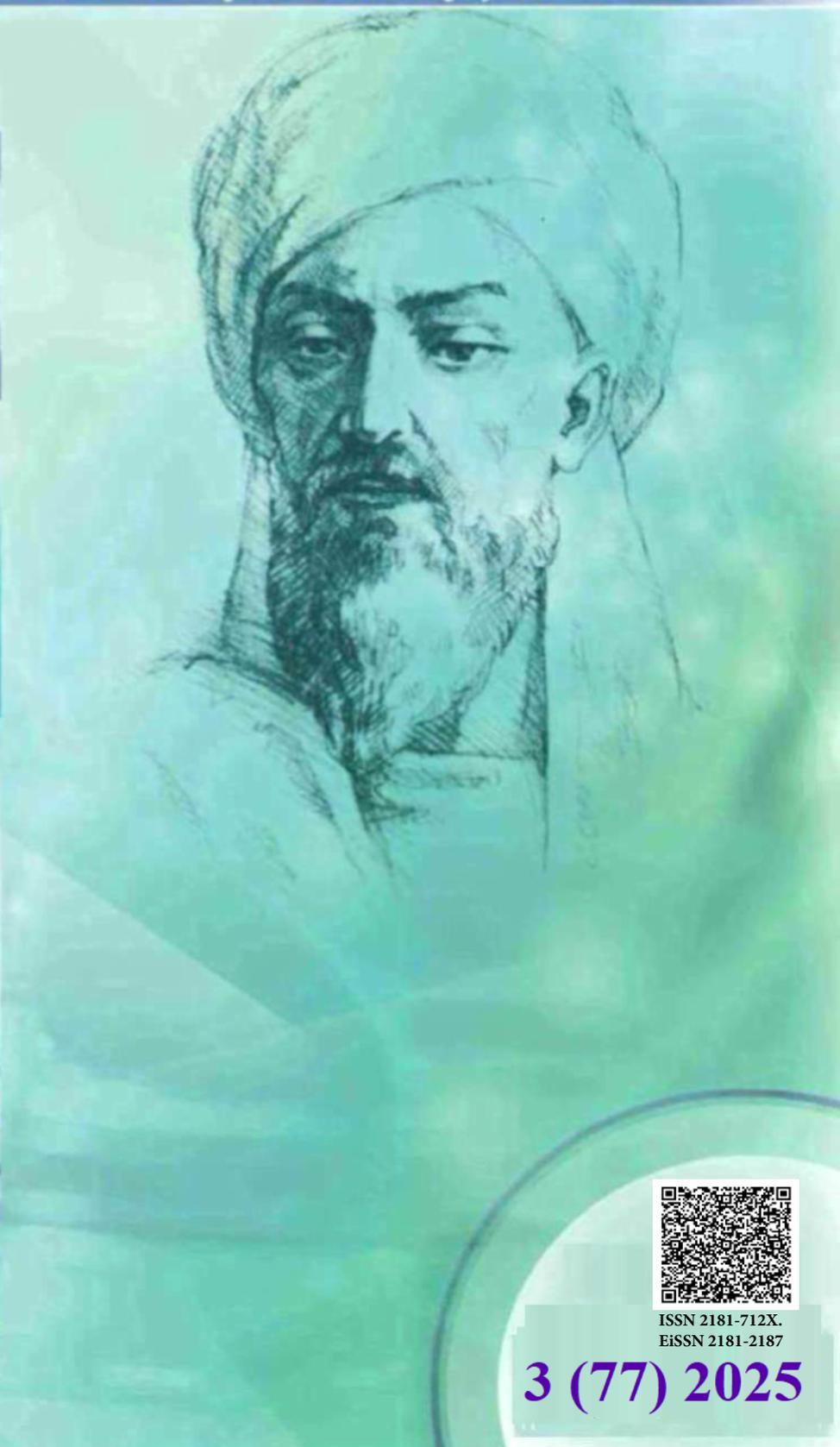
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**ТИББИЁТДА ЯНГИ КУН
НОВЫЙ ДЕНЬ В МЕДИЦИНЕ
NEW DAY IN MEDICINE**

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RESULTS OF THE DEVELOPMENT OF ENVIRONMENTAL HYGIENE STANDARDS OF CELERY INSECTICIDE

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✓ *Resume*

Experimental inspections as a result Seller of insecticide village on the farm when used his/her security hygienic point out of sight based on Insecticide atmospheric air, worker places and in the soil permission done norm work released Also of pereparat food products, water in the basins permission done quantity hygienic in terms of scientific was founded.

Keywords: Seller, city, hygiene regulations

Relevance

The development of hygienic standards for pesticides is of particular importance in preventing their negative impact on the human body and the environment. In this regard, the development of hygienic standards for the environment of the insecticide Celery has been identified as one of the main objectives of this scientific research.

Permissible concentration of the insecticide in atmospheric air was developed in 1989 (Vremennye metodicheskie ukazaniya po obosnovaniyu PDK zagryaznyayushchix veshchestv v atmosfernom vozdukh) method, and in the air of workplaces was developed in 1980 (k postanovku issledovaniy dlya obosnovaniya sanitarnyx standartov vrednyx veshchestv v vozdukh rabochey zony.1980) based on the methodical manual. The physico-chemical properties and toxicological properties of the insecticide were taken into account when developing these parameters.

Calculation:

PDK in atmospheric air

$$60+1.5 LD_{50} = 60 \times 1.5 \times 2.4 = 2.1$$

MPC 0.002 mg/m³

$$50 \times 0.0008 = 0.6 = 0.24 \text{ mg/m}^3 \text{ in the air of workplaces with a concentration of } 100 \text{ mg/m}^3.$$

Development of the allowable norm of celery insecticide in water bodies

Organoleptic properties of water and sanitary procedure were studied to develop the permissible limit of insecticide in water.

Based on the organoleptic properties (smell) of the drug, its highly sensitive concentration was determined as 0.04mg/l.

The drug did not foam at this concentration and did not change the color of the water. So, as a result of sanitary and toxicological tests, the highly sensitive concentration of the drug was determined as 0.72 mg/l.

Calculation: 0.72 – 100

$$X - 5 = 0.03 \times 20 = 0.72 \text{ mg/l}$$

As a result of complex and sanitary-toxicological tests, the permissible level of Seller's drug in water was determined as 0.04mg/l (sensitive indicator - organoleptic indicator).

Determination of the maximum permissible level of celery insecticide in food products.

The maximum permissible level of celery insecticide in food products was developed in 1969 on the basis of the methodical instruction "Metodicheskie ukazaniya po hygienicheskoy otsenke novyx pestitsidov" (Kiev, 1969).

In this case, the degree of environmental tolerance and toxicity of the drug were taken into account.

Calculation:

$$0.72 - 100\%$$

X – 70% X = 0 , 0 5

0.5 – 1000

X - 360 X = 0.18

The maximum permissible level of celery insecticide in wheat has been set at 0.18 mg/l. However, the low insecticide application rate (0.05 kg/ha) should ensure that there are no residues of the drug in wheat.

Development of permissible soil concentration (ODC) of celery insecticide.

The permissible level of celery insecticide in the soil (ODK) was developed based on the methodical recommendation "Metodicheskie rekomendatsii po ustanovleniyu PDK khimicheskikh veshchestv v pochvu(M.1978)" developed in 1978.

The permissible level of Seller insecticide in soil was hygienically justified by the calculation method.

As a result, the norm of insecticide in the soil was set at 0.2 mg/kg.

Hygienic parameters of celery insecticide

Hygienic parameters of celery insecticide

Index	Defined and permitted standard
Atmospheric air mg/m ³	0.002
Air of workplaces mg/m ³⁰	0.24
Water bodies mg/l	0.04
In soil, mg/m ³	0.2
Food products mg/kg	Not allowed

Conclusions on the results of toxicological tests of celery insecticide.

Based on the toxicological experiments conducted above, it can be concluded that the insecticide Celery is a drug that acts on agricultural pests through contact and ingestion. The drug affects the intestines and nervous system of pests.

The drug has a rapid effect on pests and protects plants and agricultural crops from pests during one growing season. It is also used twice during the growth period of agricultural crops . The drug does not have a phytotoxic and mutagenic effect on plants when used in the recommended amount.

The results of a single administration of the drug (50.0-500.0 mg/kg) to experimental animals (rats) showed that the median lethal dose (LD₅₀) was 300.0 (204.0±395.0) mg/kg, LD₁₆ -120.0 mg/kg, and LD₈₄ -440 mg/kg.

When the drug was injected into the stomach through a tube, they experienced weakness, runny nose, excessive salivation, and difficulty breathing.

Cases of ischemia, bleeding, and necrosis were noted in the stomach, kidney, and liver of experimental animals.

As a result of the acute toxicity of the insecticide, it was concluded that it belongs to chemical preparations of class 3 (low toxicity) based on the level of danger based on the Sanitary Rules and Regulations No. 0321-15.

3 drops of aqueous solution of the drug were injected into the eye of the experimental rats to study the irritant properties of the Celer drug on the eye mucosa. An hour after instillation of the drug, the eyes of the experimental animals were red and teary. After 4 hours, suppuration in the eye, reduction of the eye cup was observed.

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