

**DESTRUCTION OF CHEMICAL WEAPONS AND PROBLEMS
OF LOW AND ULTRA LOW DOSES**

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The study of influence of low and ultra low concentrations of the main substances leached from bitumen-salt masses: O-isopropylmethylphosphonate, O-pinacolylmethylphosphonate, O,O'-diisobutylmethylphosphonate, monoethanolamine, N-methylpyrrolidone formed during destruction of nerve agents has been performed. The action of individual components of leachates on tissue regulators of immune reactions – blood agranulocytes and mast cells, on intensity of antibody formation of animals with use of immune-enzyme assay, and on enzymatic activity of cholinesterase of horse blood serum, acetylcholinesterase of human blood erythrocytes and neurotoxic esterase of human blood lymphocytes have been studied. The experimental data have been obtained both *in vivo* and *in vitro* experiments.