

The proposed method for assessing functional state of leukocytes involves applying blood cells onto a glass substrate, incubating the preparations in a moist chamber, washing the preparations with alcohol, coating sequentially the preparations with lektin, which is specifically bonded with leukocyte glycoproteins, and a marker of lektin such as horse-radish peroxidase, incubating the preparations together with diaminobenzidine, and determining contents of the polymerization oxidation products. Additionally, a physiologically active substance is inserted into blood probe. As the lektin, concanavalin-A is used. Leukocyte nucleuses are colored with 1 % solution of saphranine. The functional state of leukocytes is assessed from the polymerization oxidation products by using an average cytochemical factor.