

EQUIPMENT AND METHODS FOR INVESTIGATION OF BACTERIAL AIR POLLUTION IN ROOMS

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Summary. A new device has been designed to determine the amount and size of aerosol particles (author's certificate N. 1191460). The device has insertions between the sections containing object-glasses with liquid or solid nutrient medium. Therefore, the same device can be used to determine the amount of both physical and bacterial aerosol particles and their size in μm , because particles of 9-150 μm size precipitate in the first section, those of 5-8 μm - in the second one, 3-5 μm - in the third and 1,5-3 μm - in the fourth. By increasing the distance between the inlets for the air under investigation and the object-glass insertions in the sections we can achieve that bacterial and physical particles precipitate evenly on the surface of the object-glasses. Therefore, the precision of the given device is 14-24 % higher compared with that of electroprecipitators, impactors, impringers and other measuring devices.