EFFECTIVENESS OF DISINFECTANTS ON THE QUALITY OF GERMAN NUMBERS FLOOR AND WALL ROOM PCR (Polymerase Chain Reaction) (Case Study at Menur Mental Hospital in 2022) Suci Aminning Tyas¹, Iva Rustanti EW², Fitri Rokhmalia³, Rusmiati⁴ Ministry of Health RI Health Polytechnic Ministry of Health Surabaya Environmental Sanitation Study Program Environmental Health Department Email: Suciaminningtyas46@gmail.com **ABSTRACT** Laboratory Polymerase Chain Reaction Menur Mental Hospital (RSJ) Surabaya is one of the facilities to detect the presence of the COVID-19 virulence gene. The PCR laboratory has great potential as a place for nosocomial infections, related to the spread of pathogens by direct contact of salivary fluids through floor and wall media. The right type of disinfectant needs to be considered to maintain the quality of floor and wall germs to prevent potential nosocomial infections. The purpose of the study was to analyze the effectiveness of the disinfectant on the quality of the floor and wall germ numbers of the PCR (Polymerase Chain Reaction) Laboratory at the Menur Mental Hospital. This type of research is *cross sectional* using a *pretest - posttest design*. The analytical test with the paired T-test. This research was conducted in the PCR Laboratory Room, Menur Mental Hospital, Surabaya. The samples taken were floor and wall germs using the swab method, the number of points rubbed was 4 on each medium with 3 repetitions and continued with sample examination in the laboratory. The results showed the average number of germs on the floor before disinfection was 8.3 CFU / cm² and after disinfection was 3.5 CFU / cm², while the average number of germs on the walls before disinfection was 11 CFU / cm² and after disinfection 4 CFU / cm². The results of the data analysis of the paired T-test showed p = 0.041 (p < 0.05), that there was a significant difference in the average effectiveness of the quality of the floor and wall germ numbers after disinfection. The conclusion of this study is that there is a significant difference in the average effectiveness of the quality of the floor and wall germ numbers after disinfection. Suggestions for sanitarians provide SOP (Standart Operating Procesure) for the room disinfection process. Keywords : laboratory, floor, wall, disinfectant Reference : 5 books (2013-2021), 42 journals (2016-2021)