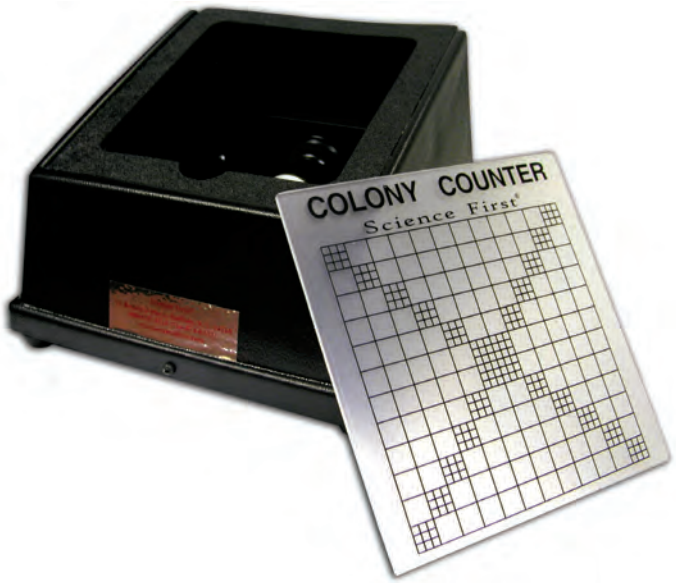
623-1050 (60-035) Colony Counter



Description:
Microorganisms are far too small to count with the naked eye. However, many of them join together to form visible colonies. These colonies can in turn be counted, giving a general estimate of the number of microorganisms. To facilitate easy counting of colonies, it is best to use a dedicated colony counter.

After you have placed a sample of microorganisms into a petri dish, place it on top of our lighted base. Note: due to the close proximity of the light to your sample, it is recommended you use a low wattage appliance bulb or compact fluorescent. This will prevent excessive heat from damaging the colonies. The counter consists of a grid of 12 by 12 squares, each 1 centimeter on a side. Arranged in an "x" pattern from corner to corner, the squares are broken down into nine smaller squares, each one third of a centimeter on a side. To count, take five or ten squares at random and count the number of colonies in each. Add these counts together, and divide by the number of squares counted. This will yield an average colony count per square.

Next, determine the total area of the petri dish, in square centimeters. Multiply this result by the average count per square, and you will determine the number of colonies in your sample. You may wish to use a light to illuminate the sample, to make it easier to count.

Warranty and Parts:
We replace all defective or missing parts free of charge. Uses a 15 watt appliance bulb. Additional replacement parts may be ordered toll-free. We accept MasterCard, Visa, checks and School P.O.s. All products warranted to be free from defect for 90 days. Does not apply to accident, misuse or normal wear and tear. Intended for children 13 years of age and up. This item is not a toy. It may contain small parts that can be choking hazards. Adult supervision is required.