

BACTERIOLOGIST 1

KIND OF WORK

Professional bacteriological work.

NATURE AND PURPOSE

An employee in this class conducts standard bacteriological tests and makes observations in accordance with scientific principals and techniques. After gaining additional experience, this employee may spot check work of newly employed Bacteriologists and Technicians, and make the more difficult observations and measurements. Work is performed under direction of a Senior Bacteriologist.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Makes standard bacteriological examinations of milk, water, blood and other body fluids and exudats.

Isolates organisms in pure culture and identifies micro-organisms by standard descriptive methods.

Prepares smears, makes stains according to recognized procedures and makes microscopic examinations of stain slides.

Assists in animal inoculation and autopsy, special culture work, and records results as read.

Assists in preparation of diagnostic antigens and antiserums.

Assists in setting up and reading Wasserman and special seriological tests and in preparing and titrating other reagents.

An experienced worker may retest analyzed canned foods for these producing organisms.

Assists in original virus work such as planting and harvesting influenza, viruses, animal inoculation and autopsy, compliment fixation tests, preparing and transferring suspensions, isolations and preservation of virus.

Provides lead work direction to newly employed Bacteriologist.

Plans, supervises, and participates in the work of identifying and counting bacteria in canned food, milk, ice cream and other foods.

Makes inspections of food processing plants to determine compliance with sanitation standards.

Makes pathological examinations of fish and wild animals to diagnose disease, recommending control and prevention techniques.

Performs related work as required.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED (Those asterisked are also essential at entry and are to be used in development of selection criteria.)

Knowledge of:

*Working knowledge of the principals and practices of bacteriology, seriology, immunology and organic chemistry.

*Working knowledge of the source of material in the field of bacteriology.

Ability to:

Ability to plan and direct the work of professional and technical laboratory assistants and to instruct them in principals, methods and procedures.

*Ability to understand and to follow oral and written directions, formalae and charts.

*Ability to carry out research projects, assemble material and present data with scientific accuracy and thoroughness, skill and manipulative techniques and in following standard scientific laboratory methods.

Est.:
Rev.: 11/22/71, 5/78
Merged: 7/5/67

T.C.: 3/89
Former Title(s): Bacteriologist