

**Biological Testing**  
**Classes of Test**

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## Biological Testing

The following is a listing of the classes and subclasses of tests available in the field of Biological Testing.

Free text is also used to describe the specific methods for which a facility is accredited together with the range of organisms which may be tested (except of Plant Health Diagnostic Testing).

### Classes of test

- 8.01 Tests on human pharmaceutical and biological products
  - .10 Endotoxin tests
  - .11 Toxicity tests
  - .12 Pyrogen tests
  - .13 Bioassays of immunological products
  - .14 Bioassays of hormones
  - .15 Bioassays of vitamins
  - .17 Bioassays of enzymes
  - .18 Assay of blood products
  - .19 Physiochemical tests
  - .20 Potency of immunological products
  - .21 Safety of immunological products
  - .30 Microscopy
  - .40 Microbial counts
  - .41 Preservative efficacy
  - .42 Microbioassays of vitamins
  - .43 Microbioassays of enzymes
  - .44 Microbioassays of chemotherapeutic agents
  - .45 Microbioassays of antibiotics
  - .46 Probiotics
  - .99 Other tests
  
- 8.02 Tests on veterinary pharmaceutical and biological products
  - .11 Bioassays of hormones
  - .12 Bioassays of vitamins
  - .13 Bioassays of enzymes
  - .14 Bioassays of immunological products
  - .19 Physiochemical tests
  - .20 Potency of immunological products
  - .21 Safety of immunological products
  - .40 Microbial count
  - .41 Preservative efficacy
  - .42 Microbioassays of vitamins
  - .43 Microbioassays of antibiotics
  - .99 Other tests
  
- 8.03 Pharmacological and biochemical tests on foods, stockfoods and their additives
  - .11 Toxicity tests
  - .12 Bioassays
  - .13 Antibiotics
  - .14 Allergenic proteins
  - .99 Other tests

- 8.04 Pharmacological tests on other materials
  - .11 Toxicity tests
  - .12 Bioassays
  - .99 Other tests
  
- 8.05 Sterility tests on pharmaceuticals
  - .01 Filtrable solutions and soluble preparations (membrane filtration)
  - .02 Surgical dressings and devices
  - .03 Non-filtrable preparations, including ointments
  
- 8.09 Effectiveness tests on biocides
  - .01 Fungicides
  - .02 Bactericides
  - .03 Algacides
  - .04 Viricides
  - .05 Sporicides
  - .06 Nappy sanitiser
  - .07 Insecticides
  
- 8.10 Microbiological tests on cosmetics, perfumes and essential oils
  - .12 Microbial counts on cosmetics
  - .13 Preservative efficacy
  - .22 Microbial counts on perfumes
  - .32 Microbial counts on essential oils
  
- 8.11 Microbiological tests on foods
  - .01 Cereal products
  - .02 Nuts and nut products
  - .03 Dairy products
  - .04 Meat and meat products
  - .05 Poultry and poultry products
  - .06 Eggs and egg products
  - .07 Fish, crustaceans and molluscs
  - .08 Edible fats and oils
  - .10 Heat-processed foods in hermetically sealed containers
  - .11 Sugar products, honey and confectionery
  - .12 Vegetables and vegetable products
  - .13 Fruit and fruit products
  - .14 Beverages
  - .17 Animal feeds
  - .20 Mixed foods
  - .24 Nutritional supplements
  - .25 Additives to foods
  - .26 Gelatine and other gums
  - .27 Herbs and spices
  - .28 Pet foods
  - .49 Other food products
  - .81 Sample collection
  - .82 Sampling plan
  - .99 Other tests

- 8.12 Meat and fish species testing
  - .01 Immunological techniques
  - .02 Isoelectric focusing
  - .03 ELISA
  - .04 Electrophoresis
  
- 8.13 Public health investigation
  - .01 Detection and characterisation, including identification and typing of bacteria
  - .02 Detection and characterisation, including identification and typing of yeasts and moulds
  
- 8.14 Challenge testing
  - .01 Bacterial
  - .02 Yeasts and Moulds
  
- 8.15 Media quality control (Accreditation applicable only to suppliers of media)
  - .01 Bacteriology media - general purpose
  - .02 Bacteriology media - selective
  - .03 Bacteriology media - antibiotic sensitivity
  - .04 Bacteriology media - biochemical test media
  - .05 Routine isolation/differential mycology media\*
  - .06 Specialised differential/ identification mycology media
  - .07 Mycobacteriology media
  - .08 Virology media
  - .81 Sample collection
  - .82 Sampling plan
  
- 8.17 Testing of surfaces in abattoirs
  - .01 Meat surfaces
  - .02 Product contact surfaces
  - .03 Sampling
  
- 8.18 Microbiological tests for monitoring defined environments
  - .01 Surfaces
  - .02 Air
  - .03 Water
  - .81 Sample collection
  
- 8.19 Microbiological tests on other materials
  - .01 Surgical dressings and related materials
  - .02 Medical devices
  - .03 Diagnostic kits
  - .11 Lubricants
  - .12 Fuels and oils
  - .15 Detergents
  - .20 Pulp and paper
  - .21 Packaging materials
  - .31 Clinical specimens
  - .50 Soils
  - .99 Other materials

- 8.20 Resistance to microbial attack
  - .01 Textiles and fabrics
  - .02 Electrical components
  - .03 Paints and surface coatings
  - .04 Adhesives, glues and other bondings
  - .05 Paper and paper pulp
  - .15 Detergents
  - .99 Other materials
  
- 8.21 Effectiveness of pesticides
  - .01 Insecticides
  - .02 Fungicides
  - .03 Herbicides
  - .04 Repellents
  
- 8.22 Resistance to insect attack
  - .01 Textiles and fabrics
  - .02 Timber and allied materials
  - .99 Other materials
  
- 8.23 Insect infestation
  
- 8.30 Sensory evaluation tests on foods
  
- 8.31 Industrial cultures
  - .11 Maintenance
  - .12 Strain affirmation
  - .13 Activity tests
  - .14 Contaminants
  - .21 Sensitivity to inhibitor
  - .22 Bacteriophage resistance
  - .23 Disturbing bacteriophage
  
- 8.32 Maintenance of culture collections (Accreditation applicable only to suppliers of reference materials)
  - .01 Preservation
  - .02 Propagation
  - .03 Identification
  - .04 Quantification
  
- 8.40 Plant health diagnostics - Bacteriology
  - .01 General diagnostic bacteriology – incorporating identification by symptomology, light microscopy, culturing methods of detection and identification of organisms
  - .02 Immunological methods of identification
  - .03 Identification by electron microscopy
  - .04 Identification by molecular techniques
  - .05 Biochemical testing
  - .06 Bioassays (incorporating host specificity testing)
  - .07 Quantitative procedures
  - .99 Other

- 8.41 Plant health diagnostics - Virology (incorporating virus-like organisms and viroids)
  - .01 Identification by symptomatology
  - .02 Identification by immunological methods
  - .03 Identification by electron microscopy
  - .04 Identification by molecular techniques
  - .05 Quantitative procedures
  - .06 Bioassays (incorporating indicator plants)
  - .99 Other
  
- 8.42 Plant health diagnostics - Mycology (including oomycetes)
  - .01 General diagnostic mycology – incorporating identification by symptomatology, light microscopy, cultural methods of detection and identification of organisms
  - .02 Immunological methods of identification
  - .03 Identification by electron microscopy
  - .04 Identification by molecular techniques
  - .05 Bioassays (incorporating host specificity and fungicide susceptibility testing)
  - .06 Quantitative procedures
  - .99 Other
  
- 8.43 Plant health diagnostics - Other micro-organisms (incorporating phytoplasmas)
  - .01 General diagnostic microbiology
  - .02 Immunological methods of identification
  - .03 Identification by electron microscopy
  - .04 Identification by molecular techniques
  - .05 Bioassays (incorporating host specificity and antimicrobial susceptibility testing)
  - .06 Quantitative procedures
  - .99 Other
  
- 8.44 Plant health diagnostics - Nematodes
  - .01 General diagnostic nematology – incorporating symptomatology, detection and identification using morphological methods
  - .02 Extraction methods for isolating nematodes from samples
  - .03 Immunological methods of identification
  - .04 Identification by molecular techniques
  - .05 Bioassays (incorporating nematicide susceptibility testing)
  - .06 Quantitative procedures (for example soil cyst counts)
  - .99 Other
  
- 8.45 Plant health diagnostics- - Molluscs
  - .01 General diagnostic malacology – incorporating identification using morphological methods
  - .02 Identification by molecular techniques
  - .03 Bioassays (incorporating molluscicide susceptibility testing)
  - .04 Quantitative procedures
  - .99 Other

- 8.46 Plant health diagnostics - Insecta
  - .01 General diagnostic entomology – incorporating detection and identification using symptomatology and morphological methods including slide preparation and microscopy
  - .03 Biochemical methods of identification
  - .04 Identification by molecular techniques
  - .05 Bioassays (incorporating host specificity testing and pesticide susceptibility testing)
  - .06 Quantitative procedures
  - .99 Other
  
- 8.47 Plant health diagnostics - Acarina
  - .01 General diagnostic acarology – incorporating detection and identification using symptomatology and morphological methods including slide preparation and microscopy
  - .02 Immunological methods of identification
  - .03 Identification by molecular techniques
  - .04 Bioassays (incorporating host specificity testing and pesticide susceptibility testing)
  - .05 Quantitative procedures
  - .99 Other
  
- 8.48 Plant health diagnostics – Other invertebrates
  - .01 General diagnostic zoology – incorporating detection and identification using symptomatology and morphological methods including slide preparation and microscopy
  - .02 Immunological methods of identification
  - .03 Identification by molecular techniques
  - .04 Bioassays (incorporating pesticide susceptibility testing)
  - .05 Quantitative procedures
  - .99 Other
  
- 8.60 Terrestrial biology
  - .01 Identification and enumeration of biota
  - .21 Ecosystem studies
  - .99 Other tests
  
- 8.61 Plant biology
  - .01 Identification using morphological or other botanical techniques
  - .02 Identification of molecular techniques
  - .03 Bioassays (incorporating herbicide susceptibility testing)
  - .04 Quantitative procedures
  - .05 Plant hormones
  - .99 Other tests
  
- 8.62 Commodity seed testing
  - .01 Sprouting test
  - .02 Mung bean export oversoak test
  - .03 Chickpea/chickpea splits export purity test
  - .04 Grain/legume purity test
  - .05 Bird seed export quality grain test
  - .06 Oil seeds purity, moisture and oil content
  - .07 Bird seed



- 8.63 Seed testing
  - .11 Sampling
  - .12 Moisture
  - .13 Purity
  - .14 Germination
  - .15 Tetrazolium
  - .16 Fluorescence
  - .17. Weed seed search
  - .99 Other tests
  
- 8.65 Aquatic Biology (of specified water source\*)
  - .11 Identification and enumeration of planktonic microalgae and cyanobacteria to specified level\*\*
  - .13 General biomass and dry weight of planktonic algae
  - .15 Phyto-pigment determination
  - .18 Sampling of planktonic microalgae and cyanobacteria
  - .21 Identification and enumeration of non planktonic microalgae and cyanobacteria to specified level\*\*
  - .23 General biomass and dry weight of non planktonic algae
  - .28 Sampling of non planktonic algae and cyanobacteria
  - .31 Identification of enteric protozoa to specified level\*\*
  - .32 Enumeration of enteric protozoa to specified level\*\*
  - .33 General biomass of enteric protozoa
  - .38 Sampling of enteric protozoa
  - .41 Identification of freeliving protozoa to specified level\*\*
  - .42 Enumeration of freeliving protozoa to specified level\*\*
  - .43 General biomass of freeliving protozoa
  - .48 Sampling of freeliving protozoa
  - .51 Identification and enumeration of microinvertebrates to specified level\*\*
  - .53 General biomass and dry weight of microinvertebrates
  - .58 Sampling of microinvertebrates
  - .61 Identification and enumeration of macroinvertebrates to specified level\*\*
  - .63 General biomass and dry weight of macroinvertebrates
  - .68 Sampling of macroinvertebrates
  - .71 Identification and enumeration of macrophytic algae to specified level\*\*
  - .73 General biomass and dry weight of macrophytic algae
  - .78 Sampling of macrophytic algae
  - .81 Identification and enumeration of macrophytic plants to specified level\*\*
  - .83 General biomass and dry weight of macrophytic plants
  - .88 Sampling of macrophytic plants

\* Potable water, industrial water, sewage, trade wastes, swimming pools and spas, environmental waters (freshwater, estuarine, marine)

\*\* Division, phylum, order, family, genus, species, genotype, user-defined group

- 8.66 Ecotoxicology
  - .01 Bioassay, including toxicity tests

- 8.70 Waters, including effluents
  - .11 Bacteriological condition of potable waters
  - .12 Bacteriological condition of industrial waters (treated, recirculating)
  - .13 Bacteriological condition of sewage
  - .14 Bacteriological condition of trade wastes
  - .15 Bacteriological condition of swimming pools and spas
  - .16 Bacteriological condition of environmental waters
  - .17 Bacteriological condition of recycled waters
  - .18 Bacteriological condition of purified/processed waters
  
  - .41 Mycological condition of potable waters
  - .42 Mycological condition of industrial waters
  - .43 Mycological condition of sewage
  - .44 Mycological condition of trade wastes
  - .45 Mycological condition of swimming pools and spas
  - .51 Virological condition of potable waters
  - .52 Virological condition of industrial waters
  - .53 Virological condition of sewage
  - .54 Virological condition of trade wastes
  - .55 Virological condition of swimming pools and spas
  - .56 Virological condition of environmental waters
  - .81 Sample collection
  - .82 Sampling plan
  - .99 Other tests
  
- 8.80 Tests on substances for potential genetic activity
  - .11 Bacterial mutagenicity tests
  - .12 Sister chromatid exchange tests
  - .13 Transformation assays in cell structure
  - .99 Other tests
  
- 8.81 Nucleic acid analysis
  - .01 Sequencing
  - .02 Genotyping
  - .03 Gene expression
  
- 8.82 Analysis of GMO
  - .01 Detection by DNA
  - .02 Quantification
  
- 8.90 Cell culture
  - .01 Cytotoxicity tests

## Amendment Table

The table below provides a summary of changes made to the document with this issue.

<b>Class or subclass</b>	<b>Amendment</b>
8.70.22	Biochemical Oxygen Demand of Industrial Waters, deleted, this class is also available in Chemical Testing. A hybrid scope will be used to remove duplication.
8.70.23	Biochemical Oxygen Demand of Sewage, deleted, this class is also available in Chemical Testing. A hybrid scope will be used to remove duplication.
8.70.24	Biochemical Oxygen Demand of Trade Wastes, deleted, this class is also available in Chemical Testing. A hybrid scope will be used to remove duplication.