

Technical notes: Microbiological Testing Services

Lonza is the market leading and industry recognized supplier of antimicrobial products. Lonza can support product development and quality control or assurance programs with a full range of

microbiological testing services. Services are available for routine or validation testing of a wide range of institutional, commercial or consumer antimicrobial and personal care products. Tests are performed by qualified technicians or microbiologists in Lonza's state-of-the-art laboratory facilities. Efficient and economical testing services provided by Lonza are performed according to recognized and industry adopted standards. Routine test services are outlined below. Please contact your Lonza representative or Lonza Technical Support Services for more information or special needs.



Product Offering	Product Description
Challenge Test (Cosmetics, CSPE 6)	Bacteria mix (E. coli, P. aeruginosa, S. aureus) and Fungi Mix (A. niger and C. albicans), one inoculation, plated after 1, 2, 3, 4 weeks
Challenge Test (Cosmetics, EP)	P. aeruginosa, S. aureus, A. niger and C. albicans; one inoculation, plated after 2 days, 1, 2, 4 weeks
Challenge Test (Industrial Preservation)	Bacteria mix (E. coli, P. aeruginosa, S. aureus) and Fungi Mix (A. niger and C. albicans), one inoculation per week, plated after 1, 2, 7 days, 3–5 repetitions [4–6 weeks]
Challenge Test (Metal working fluids)	Bacteria mix (P. aeruginosa, P. fluorescens, C. freundii, A. faecalis, S. putrefaciens) and Fungi Mix (F. solani, G. candidum, P. funiculosum), one inoculation per week, plated after 7 days, 5–9 repetitions [6–10 weeks]
Sterility Check on final products	Plating and incubating of any aqueous product to check for contamination
EN 1040	Suspension Test "Chemical Disinfectants and Antiseptics – Basic Bactericidal Activity": S. aureus, P. aeruginosa, 20 °C, 1–60 min contact time, 5 log kill
EN 1275	Suspension Test "Chemical Disinfectants and Antiseptics – Basic Fungicidal Activity": C. albicans, A. niger, 20 °C, 5–60 min contact time, 4 log kill
EN 1276	Suspension Test "Chemical Disinfectants and Antiseptics – Quantitative Suspension Test for the Evaluation of Bactericidal Activity of Chemical Disinfectants and Antiseptics used in Food, Industrial, Domestic, and Institutional Areas": S. aureus, P. aeruginosa, E. coli, E. hirae, 20 °C, hard water, 0.03–0.3 % bovine albumin, 5 min contact time, 5 log kill
EN 1650	Suspension Test "Chemical Disinfectants and Antiseptics – Quantitative Suspension Test for the Evaluation of Fungicidal Activity of Chemical Disinfectants and Antiseptics used in Food, Industrial, Domestic, and Institutional Areas": C. albicans, A. niger, 20 °C, hard water, 0.03–0.3 % bovine albumin, 15 min contact time, 4 log kill
EN 1656	Suspension Test "Chemical Disinfectants and Antiseptics – Quantitative Suspension Test for the Evaluation of Bactericidal Activity of Chemical Disinfectants and Antiseptics used in the Veterinary Field": P. vulgaris, S. aureus, P. aeruginosa, E. hirae, 10 °C, hard water, 0.3 % bovine albumin or 1 % bovine albumin + 1 % yeast extract, 30 min contact time, 5 log kill
EN 1657	Suspension Test "Chemical Disinfectants and Antiseptics – Quantitative Suspension Test for the Evaluation of Fungicidal Activity of Chemical Disinfectants and Antiseptics used in the Veterinary Field"
EN 12054	Suspension Test "Chemical Disinfectants and Antiseptics – Products for Hygienic and surgical Handrub and Handwash – Bactericidal Activity"
EN 13697 bacteria	Surface Test "Chemical Disinfectants and Antiseptics – Quantitative non-porous Surface Test for the Evaluation of Bactericidal and/or Fungicidal Activity of Chemical Disinfectants and Antiseptics used in Food, Industrial, Domestic, and Institutional Areas": S. aureus, P. aeruginosa, E. coli, E. hirae, 18–25 °C, hard water, 0.03–0.3 % bovine albumin, 5 min contact time, 4 log kill
EN 13697 fungi	Surface Test "Chemical Disinfectants and Antiseptics – Quantitative non-porous Surface Test for the Evaluation of Bactericidal and/or Fungicidal Activity of Chemical Disinfectants and Antiseptics used in Food, Industrial, Domestic, and Institutional Areas": C. albicans, A. niger, 18–25 °C, hard water, 0.03–0.3 % bovine albumin, 15 min contact time, 3 log kill
EN 13624 clean	Suspension Test "Quantitative Suspension Test for Evaluation of Fungicidal Activity of chemical Disinfectants for Instruments used in the Medical Area": C. albicans, A. niger, 20 °C, 0.3% bovine albumin, 60 min. contact time, 4 log kill
EN 13727 clean	Suspension Test "Quantitative Suspension Test for Evaluation of Bactericidal Activity of chemical Disinfectants for Instruments used in the Medical Area": S. aureus, P. aeruginosa, E. hirae, 20 °C, 0.3% bovine albumin, 60 min. contact time, 5 log kill

Product offering	Product description
Influenza A (H1N1)	Influenza A (H1N1) Efficacy Test according to EN 14476: 2005
Adenovirus	Adenovirus Efficacy Test according to EN 14476: 2005
Herpes Simplex	Herpes Simplex Virus Efficacy Test according to EN 14476: 2005
Qualitative Algaecidal Performance Test	Allows to determine the qualitative algaecidal efficacy of biocides against the freshwater algae <i>Chlorella vulgaris</i> .

N.B. Screenings on one or more strains according to each norm or test can be also performed

About Lonza

Lonza is one of the world's leading suppliers to the pharmaceutical, healthcare and life science industries. Its products and services span its customers' needs from research to final product manufacture. Lonza is the global leader in the production and support of active pharmaceutical ingredients both chemically as well as biotechnologically. Biopharmaceuticals are one of the key growth drivers of the pharmaceutical and biotechnology industries. Lonza has strong capabilities in large and small molecules, peptides, amino acids and niche bioproducts which play an important role in the development of novel medicines and healthcare products. Lonza is a leader in cell-based research, endotoxin detection and cell therapy manufacturing. Lonza is also a leading provider of value chemical and biotech ingredients to the nutrition, hygiene, preservation, agro and personal care markets.

Lonza is headquartered in Basel, Switzerland and is listed on the SIX Swiss Exchange.

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The Lonza logo consists of the word "Lonza" in a bold, black, sans-serif font.