

# Covid-19



Your questions, FASTER answers

## WHAT ARE THE GUIDELINES FOR THE CORRECT MANAGEMENT AND HANDLING OF PATHOGENIC AGENTS SUCH AS CORONAVIRUS COVID-19?

The American [Centers for Disease Control and Prevention \(CDC\)](#) and [National Institutes of Health](#) are the most recognized institutions in the world for the classification of infectious agents such as Covid-19. In particular, CDC issued safety guidelines recognized as benchmark all around the world .

## HOW SHOULD MY LABORATORY BE CLASSIFIED TO PERFORM ANALYSIS AND HANDLING OF PATHOGENIC AGENTS LIKE COVID-19?

According to CDC, virus isolation is only possible in a bio-safety laboratory of at least level 3 (BSL-3) and which uses BSL-3 working practices.

BSL	Agents	Practices	Primary Barriers and Safety Equipment	Facilities (Secondary Barriers)
1	Not known to consistently cause diseases in healthy adults	Standard microbiological practices	<ul style="list-style-type: none"> <li>No primary barriers required.</li> <li>PPE: laboratory coats and gloves; eye, face protection, as needed</li> </ul>	Laboratory bench and sink required
2	<ul style="list-style-type: none"> <li>Agents associated with human disease</li> <li>Routes of transmission include percutaneous injury, ingestion, mucous membrane exposure</li> </ul>	BSL-1 practice plus: <ul style="list-style-type: none"> <li>Limited access</li> <li>Biohazard warning signs</li> <li>"Sharps" precautions</li> <li>Biosafety manual defining any needed waste decontamination or medical surveillance policies</li> </ul>	Primary barriers: <ul style="list-style-type: none"> <li>BSCs or other physical containment devices used for all manipulations of agents that cause splashes or aerosols of infectious materials</li> <li>PPE: Laboratory coats, gloves, face and eye protection, as needed</li> </ul>	BSL-1 plus: <ul style="list-style-type: none"> <li>Autoclave available</li> </ul>
3	Indigenous or exotic agents that may cause serious or potentially lethal disease through the inhalation route of exposure  <b>E.g.: Covid-19</b>	BSL-2 practice plus: <ul style="list-style-type: none"> <li>Controlled access</li> <li>Decontamination of all waste</li> <li>Decontamination of laboratory clothing before laundering</li> </ul>	Primary barriers: <ul style="list-style-type: none"> <li>BSCs or other physical containment devices used for all open manipulations of agents</li> <li>PPE: Protective laboratory clothing, gloves, face, eye and respiratory protection, as needed</li> </ul>	BSL-2 plus: <ul style="list-style-type: none"> <li>Physical separation from access corridors</li> <li>Self-closing, double-door access</li> <li>Exhausted air not recirculated</li> <li>Negative airflow into laboratory</li> <li>Entry through airlock or anteroom</li> <li>Hand washing sink near laboratory exit</li> </ul>
4	<ul style="list-style-type: none"> <li>Dangerous/exotic agents which post high individual risk of aerosol-transmitted laboratory infections that are frequently fatal, for which there are no vaccines or treatments</li> <li>Agents with a close or identical antigenic relationship to an agent requiring BSL-4 until data are available to redesignate the level</li> <li>Related agents with unknown risk of transmission</li> </ul>	BSL-3 practices plus: <ul style="list-style-type: none"> <li>Clothing change before entering</li> <li>Shower on exit</li> <li>All material decontaminated on exit from facility</li> </ul>	Primary barriers: <ul style="list-style-type: none"> <li>All procedures conducted in Class III BSCs or Class I or II BSCs in combination with full-body, air-supplied, positive pressure suit</li> </ul>	BSL-3 plus: <ul style="list-style-type: none"> <li>Separate building or isolated zone</li> <li>Dedicated supply and exhaust, vacuum, and decontamination systems</li> <li>Other requirements outlined in the text</li> </ul>

## WHAT BIOLOGICAL SAFETY CABINETS ARE SUITABLE FOR HANDLING OF PATHOGENIC AGENTS SUCH AS COVID-19?



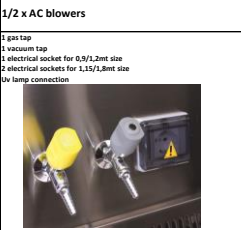



The biological safety cabinets suitable for handling pathogens classified at bio-safety level 3, such as Covid-19, are the **class II biological safety ones with open front.**

## WHAT'S FASTER OFFER AND HOW CAN I FIND THE MOST SUITABLE BIOLOGICAL SAFETY CABINET FOR MY NEEDS?

Through a capillary network of distributors all over the world, FASTER offers a [wide range of safety cabinets](#). Among these, the **SafeFAST** range are [class II biological safety cabinets](#).

# Biological safety cabinets



	SAFEFAST PREMIUM	SAFEFAST ELITE	SAFEFAST TOP	SAFEFAST CLASSIC
<b>WORK SURFACE</b>	316 SS - divided by perforated sectors 	316 SS - divided by perforated sectors. 	316 SS - divided by perforated sectors 	304 SS - divided by perforated sectors. 
<b>INTERNAL CHAMBER</b>	304 SS Back panel 304 SS Spillage tray Safety glasses 	304 SS Back panel 304 SS Spillage tray Safety glasses 	304 SS back panel and sides (1 piece chamber) 304 SS Spillage tray 	Painted steel back panel 304 SS Spillage tray Safety glasses with 3 x holes for utilities 
<b>EXTERNAL STRUCTURE</b>	Antimicrobial coated painted steel	Antimicrobial coated painted steel	Antimicrobial coated painted steel	Antimicrobial coated painted steel
<b>FRONT</b>	Electric front glass + automatic system for opening front panel 	Electric front glass + automatic system for opening front panel 	Hinged flap front glass 	Electric front glass + manual system for opening front panel 
<b>SHAPE</b>	Sloped 	Sloped 	Straight 	Sloped 
<b>FAN</b>	2 x DC blowers	1/2 x AC blowers	1/2 x AC blowers	1/2 x AC blowers
<b>UTILITIES</b>	1 gas tap 1 vacuum tap 1 electrical socket for 0,9/1,2mt size 2 electrical sockets for 1,15/1,8mt size Uv lamp connection 	1 gas tap 1 vacuum tap 1 electrical socket for 0,9/1,2mt size 2 electrical sockets for 1,15/1,8mt size Uv lamp connection 	1 gas tap 1 vacuum tap 1 electrical socket for all sizes 	1 electrical socket for 0,9/1,2mt size 2 electrical sockets for 1,15/1,8mt size Uv lamp connection 
<b>LIGHTS</b>	LED lights 	Fluorescent lights 	Fluorescent lights 	Fluorescent lights 
<b>UV LAMP</b>	Magnetic and movable anywhere in the back panel 	Magnetic and movable anywhere in the back panel 	Fixed on frontal closure panel 	Magnetic and movable anywhere in the back panel 
<b>SUPPORT STAND</b>	Working height 880 mm	Working height 880 mm	Working height 905 mm	Working height 880 mm
<b>DUCT CONNECTION</b>	To be added as accessory 	To be added as accessory 	Equipped as standard 	To be added as accessory 
<b>FILTERS</b>	HEPA/ULPA 115mm height	HEPA/ULPA 69mm height	HEPA/ULPA 69mm height	HEPA/ULPA 69mm height
<b>SIZE</b>	0,9/1,2/1,5/1,8 mt (width)	0,9/1,2/1,5/1,8 mt (width)	0,9/1,2/1,5/1,8 mt (width)	0,9/1,2/1,5/1,8 mt (width)



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