

BSL-2+ Mobile microbiology laboratory

Introduction



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General Introduction

BSL-2+ mobile microbiology laboratory is mainly used for on-site investigation of biological factors in major public health emergencies outbreak such as COVID 19. After the occurrence of natural disasters such as earthquake and flood, the detection of pathogens and hygiene indexes of samples which collect from environment, drinking water and food in disaster areas can be performed; It can also be used for the detection of biosecurity on the site of large gatherings. BSL-2+ mobile microbiology laboratory is the safety emergency equipment of epidemic prevention and control .

Main features

BSL-2+ mobile microbiology laboratory has achieved four patents for invention.

BSL-2+ mobile microbiology laboratory has function of nucleic acid detection.

BSL-2+ mobile microbiology laboratory realize fast mobile deployment.

BSL-2+ mobile microbiology laboratory can be used in various scene.



Reference Standard

GB19489-2008 《General requirements for laboratory biosafety》

GB 50346-2004 《Technical specification for biosafety laboratory construction》

ISO 1590: 2003(E) 《Medical laboratory - safety requirements》

BSL-2+ mobile microbiology laboratory has passed the national construction engineering quality supervision and inspection center test.

Main configuration and functions

Immune analyzer : It is used for quick detection of microorganism on the spot, and the detection result is obtained automatically.



Enzyme standard instrument : It is used to analyze antigen or antibody levels.



The PCR instrument : It is used for detection of pathogenic microorganism, gene expression level and gene mutation.



Bench centrifuge: It is used to separate materials with different settling coefficients and buoyancy densities from samples.



Biochemical incubator : It is a special thermostatic equipment for culture and preservation of bacteria, mould and microorganism.



Autoclave sterilizer : It can produce high steam pressure and high temperature to sterilize the object.

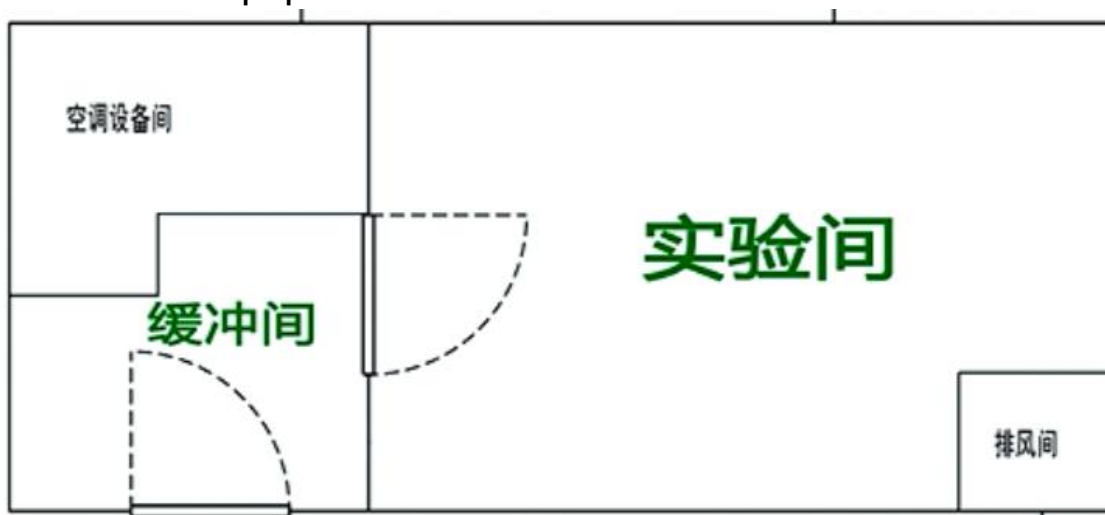


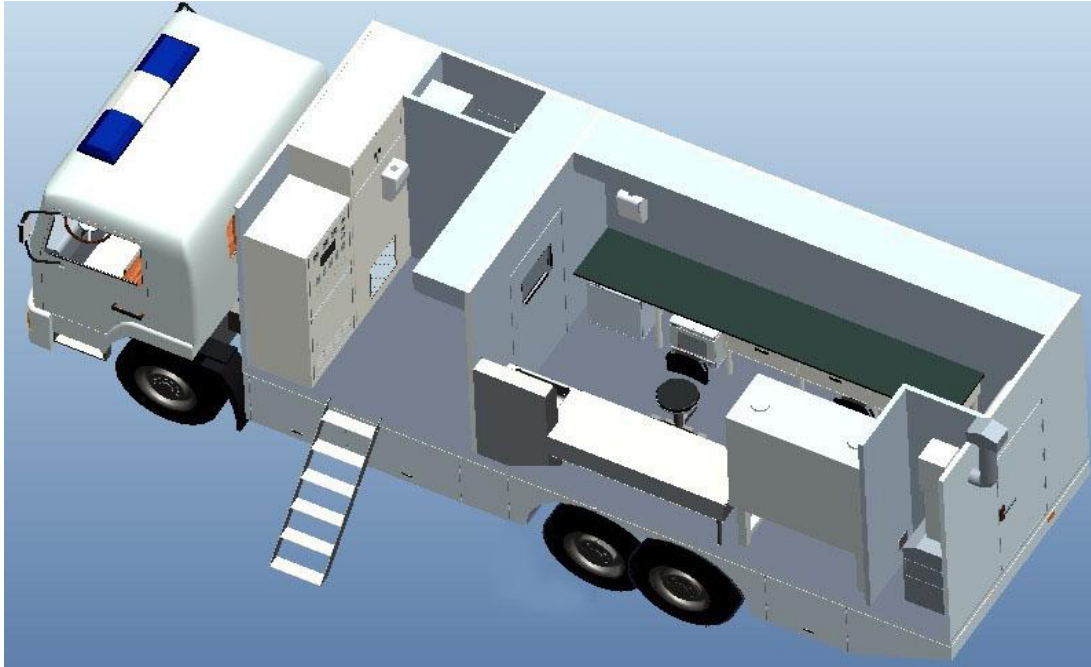
Biosafety cabinet: It is used to protect the operator, laboratory environment and experimental materials from exposure to infectious aerosols and spillages that may be produced during operation.



Layout

The compartment of BSL-2 + mobile microbiology laboratory is divided into buffer room (dressing room), laboratory room (core area), air supply air conditioning equipment room and exhaust air purification equipment room.





Environmental adaptability index

NO.	Item	Index
1	Working temperature	-20°C ~ +46°C
2	Storage limit temperature	-40°C ~ +60°C
3	Wind pressure resistance	withstand surface stable wind more than 30m/s
4	Radiation resistance	withstand solar radiation with intensity of more than 120w/m ²
5	Humidity resistance	All parts and components in the compartment have the ability to adapt to 95% environmental conditions of relative humidity

Negative pressure isolation parameters

NO.	Area	Room static pressure	cleanliness
1	buffer room	10Pa	100 thousand class
2	Experiment room	-20Pa	10 thousand class

Scope of delivery

NO.	Item	Buyer	Seller	Remark
1	Debugging		√	Customer assistance
2	Manual		√	Relevant documents to meet the needs of product operation, maintenance and maintenance
3	Acceptance	√	√	Live or remote online
4	Training		√	Training operation and management personnel

Delivery

The production cycle of the first set of products is 120 days. The delivery method and cycle are specified in the contract.

Warranty

12 months from the date of acceptance.