# Stay Informed **Biosafety Levels**

# eppendorf

Work with biological material can sometimes be dangerous for laboratory staff and the environment. Material must be handled according to its level of hazardousness. For this purpose, four biosafety levels (BSL) have been established as standards.\* Below you will find descriptions of typical biological material, equipment, and requirements for each level.

Each safety standard requires a certain level of skill in handling potentially dangerous material. Depending on the safety level, precautions must be taken inside the laboratory and the facility.

\* https://www.cdc.gov/biosafety/publications/bmbl5/BMBL.pdf »last downloaded 2017-09-06«

## **Biosafety level 4**

4

3

Personal equipment positive pressure suit

#### Facility requirements

- + Dedicated supply and



#### **Biological samples**

> Ebola

# BIOSAFET LEVEL 4

#### **Biosafety level 3**

### Personal equipment

- > Personal protective

# **Biosafety level 2**

### 2

- Personal equipment
- > Personal protective
- > Eye protection/face shields

#### **Facility requirements**

- > Biosafety level 2 standard

**Facility requirements** 



#### **Biological samples**



# **Biological samples**



+ Autoclaved trash + Biohazard warning signs





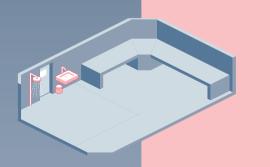
### **Biosafety level 1**

1

**Personal equipment** > Lab coat

> Eye protection

#### **Facility requirements**



#### **Biological samples** > Nonpathogenic strain of *E. coli* > Bacillus subtilis

> Yeast

