

The GESTIS Biological Agents Database is a joint project:



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The GESTIS Biological Agents Database can be accessed freely and without registration at the following address:

- <https://bioagent.dguv.de>



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GESTIS
Biological Agents Database

<https://bioagent.dguv.de>

The **GESTIS Biological Agents Database** is an internet-based database containing data that can be accessed without restriction and free of charge.

A large number of biological agents are put to use in laboratories, in biotechnology and in animal testing. Employees can also come into contact with biological agents in other activities (e.g. in the health services, cleaning and rehabilitation work, veterinary medicine, agriculture, forestry, waste water and solid waste industry). Biological agents therefore have to be included in the risk assessment at many workplaces.

The **database target group** thus mainly comprises those responsible for workplace safety and health. The search mask permits searches not only for the name of the biological agent, but also for the risk group, biological agent category, sector and special activity datasheets.

Name	Document number	
Sector	Full text search	
Category	Risk group	Note
<input type="checkbox"/> Only data sheets with extended information		
Search	Exact Search	Clear entered data

Search mask of the GESTIS Biological Agents database

Full-text searches in all content and the selection of the biological agent from an alphabetical list are also possible.

The GESTIS Biological Agents Database is regularly supplemented and updated. It contains three kinds of datasheet:

1. Biological agent datasheets with extended information

← →
Print / PDF German

Leishmania tropica

General information | Occupational and health protection | Morphology and physiology | Occurrence/natural habitat | Pathogenicity/pathogenic properties | Disease | Epidemiology | Resistance/Tenacity | Legal basics | Links | References

GENERAL INFORMATION

Leishmania tropica

Document Number: 800510
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Category: Parasite
Classification: Protozoa

Risk group: 2
Biological agents that can cause human disease and might be a hazard to employees; they are unlikely to spread to the community; there is usually effective prophylaxis or treatment available.

References: Note 2:
Parasites labelled "2" in TRBA 464 include the zoonotic agents specified in EU directive 2003/99/EC, and further parasites falling under item B.4 Annex 1 of EU directive 2003/99/EC, but not specifically referred to there. These labels are derived from DGVU Information 215-089 (leaflet B 005/2014) "Safe Biotechnology – classification of biological agents: parasites" of the German Social Accident Insurance Institution for the raw materials and chemical industry (BG RC).

Zoonotic agents include all viruses, bacteria, fungi, parasites or other biological entities able to trigger zoonosis.
Zoonosis is any disease and/or infection which is naturally transmissible directly or indirectly between animals and humans. The infection can also be transmitted by bypassing the natural infection path (laboratory infection).

Consultant / Reference laboratory: National Reference Centre for Tropical Infective Microbes (Nationales Referenzzentrum für tropische Infektionserreger) at the Bernhard-Nocht-Institut für Tropienmedizin (Bernhard-Nocht-Institut für Tropenmedizin)
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Scanning electron microscopic image of a promastigote stage of *Leishmania tropica* which is in the process of division, as an example of a protozoan microorganism causing cutaneous leishmaniasis, the various forms of which are morphologically indistinguishable. Figure: Prof. Dr. H. Mehlhorn.

Example of a biological agent datasheet with extended information: *Leishmania tropica*

Here you can find the following information:

- Name, category, risk group etc.
- Occupational safety and health (protective measures, inactivation, decontamination, first aid, occupational health care)
- Morphology and physiology
- Occurrence, natural habitat
- Pathogenicity
- Disease (symptoms, therapy, prophylaxis)
- Epidemiology
- Resistance, tenacity
- Regulations (laws, ordinances, technical rules)
- Related links
- References

2. Biological agent datasheets with basic information

OCCUPATIONAL SAFETY AND HEALTH

Protective measures | Inactivation/Decontamination | Occupational health care

PROTECTIVE MEASURES

The following protective measures apply to specific activities in laboratories, the husbandry of laboratory animals and biotechnological activities. For further information see TRBA 100, TRBA 120, TRBA 500.



Technical measures

Where tasks intentionally involve biomaterials, their identity must be verified and documented routinely. Protective measures are listed below that are generally to be taken when activities intentionally involve biological substances of risk group 2. For the biological substance referred to above, the risk assessment may indicate that additional precautions are necessary. Areas in which the biomaterial is processed must be isolated from other areas and labelled with the "Biohazard" warning symbol and protection level 2. The doors of the area within which the protection level applies must open in the direction of the escape route and be equipped with an inspection window. Where a health hazard posed by bioaerosols cannot be eliminated, the relevant activities must be performed in a microbiological safety cabinet (MSC). For detailed information on activities in MSCs, see leaflet B 011 of the BG RC (German Social Accident Insurance Institution for the raw materials and chemical industry). Wash basins, disinfectant dispensers, disposable towels and hand detergents must be available. Water faucets and disinfectant dispensers must be operable without the use of the hands. Laboratories must offer suitable eyewash facilities. All surfaces and areas that could come into contact with biological agents must be easy to clean, liquid-tight and resistant to detergents and disinfectants. A seamless wall-floor joint must be effected. Windows and doors must be kept closed while work is in progress. Work areas are to be maintained in a clean and tidy state. Only tools and devices that are actually needed may remain on the benches. Pipettors must be provided and used. Mouth pipetting is not permitted.

Example of a biological agent datasheet with basic information

These contain information on:

- Name, category, risk group etc.
- Occupational safety and health for activities in laboratories specifically involving biological agents
- Related links

3. Activity datasheets

Activity datasheets contain information on activities in sectors where health-hazardous biological agents can arise (usually so-called „non-specific“ activities, e.g. waste or waste water industry. These contain at least the following information:

- Health-hazardous biological agents possibly occurring during these activities
- Occupational safety and health, protective measures
- Regulations and related links