Background



For a deleading operation, a company wants to use old premises for its cantonments. Strong evidence for the presence of mould.

Intervention of the LBC for assistance



- Inspection of the premises: observation mouldy areas and extensive contamination.
- Sampling surface to objectify the fungal nature.
- Audit building for research origin of moisture and technical solutions to solve them.



Conclusions

- Observation of the presence of mold in 2 of the 4 parts concerned.
- Identification (microscopy + molecular) of Stachybotrys chartarum, Gliomastix (murorum), several Penicillium and Doratomyces (stemonitis),
- Possible exposure of workers present in this environment to VOCs emitted, to spores, mycelium, other by-products of the mold growth,
- Possible effects on the health of workers by contact or inhalation:

allergy

irritations

possible infections

Recommendations



FUNGAL CONTAMINATION OF WORKERS'QUARTERS: OBSERVATIONS AND RECOMMENDATIONS

Example of assistance by **Biocontaminants Laboratory**

Before workers use the quarters:

Localisation

- Look for sources of moisture and solve problems
- Stop any spreading of moulds: isolate the contaminated parts from uncontaminated
- Ventilate and dry the wet parts
- Clean without dispersing moulds
- Adjust the cleaning procedures: methods, products, waste management, and PPE
- Return the premises in good state and install a ventilation
 - Maintain good hygiene.

Identification of the main mould (not exhaustive)

Part # 1 (Future refectory)

- Stachybotrys chartarum Gliomastix murorum
- Penicillium spp





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Part # 2

(Future decontamination area - deleading operation)

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- Stachybotrys chartarum
- Gliomastix murorum
- Penicillium spp
- Doratomyces stemonitis
- Cladosporium sp.



Doratomyces stemonitis

microscopy after culture

and isolation (x400)

Stachybotrys chartarum culture and isolation on MEA medium



microscopy after culture and isolation (x1000)



Z l'Assurance Maladie

RISQUES PROFESSIONNELS

VOTRE INTERLOCUTEUR EN RÉGION :



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