

# Evaluation of radioactivity decontamination from different materials for surfaces of a generally purpose radioisotope laboratory



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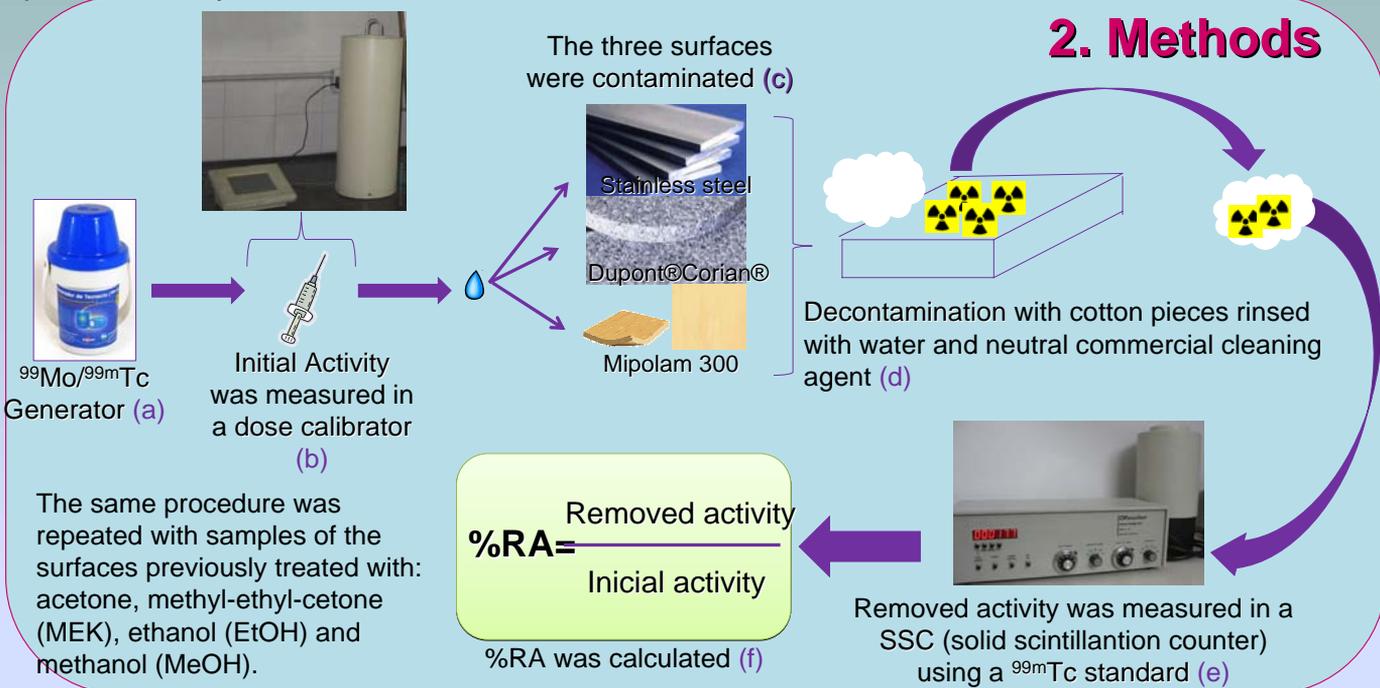
## 1. Introduction

The aim of this work was to evaluate the effectiveness of radioactive decontamination of commonly used materials employed for laboratory surfaces. In addition we also evaluated how solvent spills can modify it.



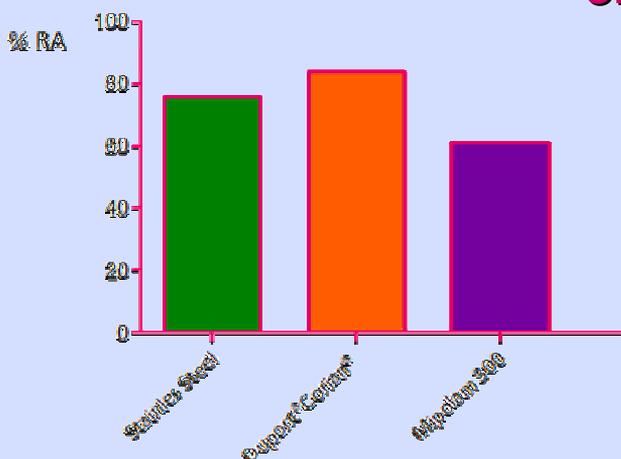
How effective decontamination is?

## 2. Methods

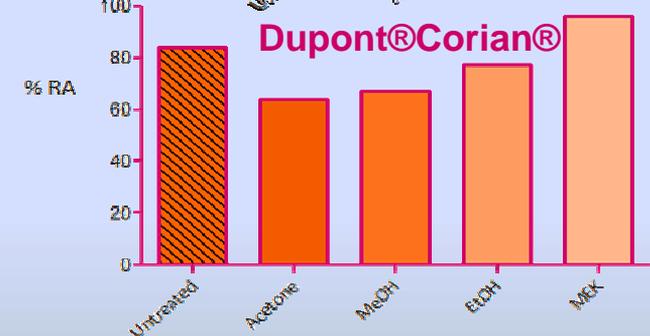
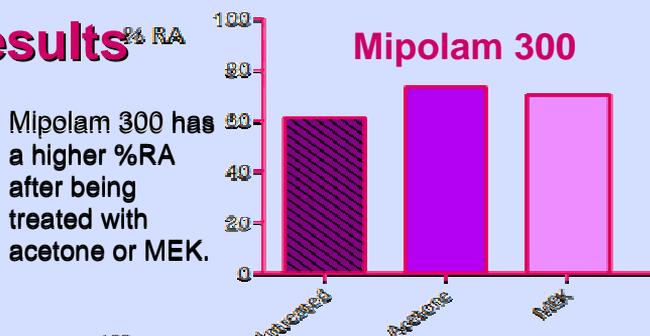


The same procedure was repeated with samples of the surfaces previously treated with: acetone, methyl-ethyl-cetone (MEK), ethanol (EtOH) and methanol (MeOH).

## 3. Results



Dupont®Corian® is better decontaminated than the other surfaces because it has the highest %RA.



## 4. Discussion & Conclusions

The %RA decreases when Dupont®Corian® is treated using solvents with the exception of MEK that increases it.

According to these preliminary results Dupont®Corian® is the most suitable surface for stands of a generally purpose radioisotope laboratory that uses different solvents since it is better decontaminated with standard cleaning agents. Further research is needed to compare Mipolam 300 with other material surfaces suitable for laboratory floors and to evaluate other working simulated conditions as well.