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(54) **Reliable method for assessing and reporting the risks of disease, contamination and losses caused by one or more microorganisms in a matrix or environment**

(57) The present invention relates to a method for assessing and reporting risks of disease, contamination or loss caused by one or more microorganisms in a matrix or an environment, said method comprising the steps of:

- a) acquiring data regarding said one or more microorganisms and data regarding said matrix or said environment,
- b) performing a risk analysis and assessment in order to determine a risk of disease, contamination or loss by said one or more microorganisms in said matrix or environment,
- c) compiling the results of said risk analysis and outputting said results in a report, and

d) recommending suitable prevention, remediation or minimization strategies.

In a preferred embodiment, the invention comprises acquiring data regarding said microorganisms by detecting, identifying and quantifying one or more microorganisms or components thereof in said matrix or environment in a single assay, preferably using an array-based assay.

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