



science and policy  
for a healthy future

HORIZON2020 Programme  
Contract No. 733032 HBM4EU

## List of candidate laboratories to support the HBM4EU QA/QC activities in WP9

Information extracted from Deliverable Report D 9.3:

Database of candidate laboratories for the  
1st prioritisation round of substances

WP 9 - Laboratory analysis and quality assurance

Uploaded by Coordinator: 28 September 2017

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## 2 Introduction

The objective of the task 9.2 was to elaborate a list of candidate laboratories for the substances selected in the 1<sup>st</sup> HBM4EU round of prioritisation for:

- ▶ Performing chemical analysis of biomarkers
- ▶ Developing new analytical methods
- ▶ Supporting Quality Assurance/Quality Control (QA/QC) program in WP9

These candidate laboratories could take part in the activities of HBM4EU after their subsequent successful participation in the Interlaboratory Comparison Investigations (ICIs) and External Quality Assurance Scheme (EQUAS) (biomarker analysis) or after being selected according to the criteria defined by experts (new analytical methods and QA/QC support).

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## Candidate laboratories to support the QA/QC activities in WP9

For the preparation of the list of candidate laboratories to support the QA/QC activities, the results of the surveys completed by 16 European laboratories were blindly evaluated by two independent evaluators: the Chemical Testing Department of the National Public Health Surveillance Laboratory (NPHSL, Lithuania) and the Quality Assurance Unit of the National Centre for Environmental Health of the Institute of Health Carlos III (ISCIII, Spain). The evaluation was performed according to the established criteria indicated elsewhere.

Subsequently, the ULPGC calculated the averages of both independent assessments and calculated the coefficient of variation ((standard deviation / mean) x 100). For those laboratories in which the coefficient of variation was higher than 20%, a reevaluation was made and a joint score between the the ULPGC and ISCIII was agreed for those criteria in which there was a discrepancy.

The score distribution of the laboratories evaluated was analysed and the 75<sup>th</sup>, 50<sup>th</sup>, 25<sup>th</sup> and 10<sup>th</sup> percentiles were calculated. The cutoff value was set at the 10<sup>th</sup> percentile, and the candidate laboratories are the following:

### List of candidate laboratories to support the QA/QC activities

Laboratory/Group	Centre	Country
VITO - goal	VITO	Belgium
Toxins and natural components	CODA-CERVA	Belgium
Organic and Biological Analytical Chemistry (CART)	University of Liege	Belgium
Laboratory for Food, Medicines and Consumer Safety	Institute for Public Health (WIV-ISP)	Belgium
Aarhus University	Aarhus University	Denmark
LABERCA	INRA, Oniris	France
Institute for Prevention and Occupational Medicine of the German Social Accident Insurance (IPA)	Ruhr-Universität Bochum	Germany
ABF Analytisch-Biolotisches Labor	ABF GmbH	Germany
Environmental Exposure and Epidemiology	Norwegian Institute of Public Health	Norway
Food and Nutrition Department	Instituto Nacional de Saúde Dr. Ricardo Jorge, INSA. National Institute of Health	Portugal
Department of Environmental Sciences	Jozef Stefan Institute	Slovenia
Biomarkers Unit	National Center for Environmental Health, Institute of Health Carlos III	Spain
Vrije Universiteit Amsterdam	Department Environment & Health	The Netherlands
Inorganic Geochemistry	British Geological Survey	UK