



German External Quality Assessment Scheme

Prof. Dr. med. Andrea Kaifie-Pechmann

Institute and Out-Patient Clinic for Occupational, Social and
Environmental Medicine

Friedrich-Alexander University Erlangen-Nürnberg

Henkestr. 9-11, 91054 Erlangen, Germany

Information - Intercomparison programme RV74

Dear Colleague,

As you know, we have been carrying out a statistical quality control programme and certification for occupational medical and environmental medical toxicological analysis in biological materials since 1982. Within the framework of statistical quality control,

G-EQUAS 74 is going to take place from **August 2024 – January 2025**.

The round robin comprises the determination of a series of important occupational-medical and environmental-medical parameters in blood, plasma, serum, urine and hemoglobin samples.

You will find all relevant information, order forms and deadlines under www.app.g-equas.de/web. We would advise you to regularly check our website and to order online.

Deadlines and Shipping dates

If you wish to participate in **G-EQUAS 74/2024** please order online via our homepage www.g-equas.de until

September 3rd, 2024

You also may return the scanned request form with marked parameters by email.

Contact data:

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Fax: ++49-9131/85 26132 (we would prefer email transmission or postal delivery of all documents)

The required control materials will be shipped

**as of September 16th (to Overseas participants) and
as of September 19th 2024 (to European participants)**

Deadline for reporting your results is

November 19th, 2024

Results that arrive after this date will not be considered in the evaluation process.

The **blood, plasma, serum, urine** and **hemoglobin** samples are native pooled materials which are spiked with defined amounts of the occupational and environmental-medical toxicological parameters after appropriate preparation. For the urine controls, plasma controls for metals, and hemoglobin controls, human materials were used. Whole blood and serum controls are of bovine origin. Headspace samples are prepared with bovine

blood. This procedure has proven its merit in previous round robins, as well as in international quality control programmes.

All samples should be handled with the same precautionary measures as when analysing routine samples.

In **G-EQUAS 74** 19 control materials in two different concentration levels are being offered.
Please see request form RV74 and result sheet RV74 for detailed information.

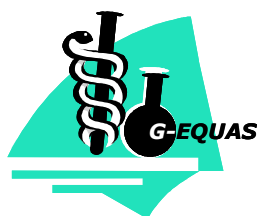
Each participant receives samples in **two concentration settings** for each parameter to be analysed. Successful participation in the round robin is certified if both values are determined within the tolerance ranges.

A certificate and report is awarded for the successful participation in this intercomparison programme for occupational-medical- and environmental-medical- toxicological analyses.

We wish you all the best for your tests.

Kind regards,

Prof. Dr. med. Andrea Kaifie-Pechmann



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General price information

The **basic payment of 250 € for Overseas participants and 180 € for European participants** covers the costs for the participation in the round robin, the evaluation, the report/certification and the shipping costs.

Additionally 30 € are charged for each single parameter in blood, plasma/serum or urine.

For each of the following parameter pools an amount of 60.00 € is charged. The pools comprises several parameters, the participant may report all or a selection. For each reported parameter an evaluation and certification is conducted.

parameter: 11	Arsenic speciation (As^{3+} , As^{5+} , MMA, DMA, AsB)
parameter: 117	N-Methylpyrrolidone metabolites (5-HNMP and 2-HMSI)
parameter: 80	Pyrethroide metabolites (Acid part) ($\text{Br}_2\text{-CA}$, $\text{cis-Cl}_2\text{-CA}$, $\text{trans-Cl}_2\text{-CA}$, CTFA)
parameter: 83	Pyrethroide metabolites (Alcohol part) (3-PBA, FPBA)
parameter: 87	Alkyl phosphates (DMP, DMTP, DMDTP, DEP, DETP, DEDTP)
parameter: 93	Nicotine and metabolite (Nicotine, Cotinine)
parameter: 122	Phthalate metabolites "DEHP" (5-carboxy-MEPP, 5-oxo-MEHP, 5-OH-MEHP, MEHP)
parameter: 129	Phthalate metabolites "other" (MnBP, MiBP, MBzP, MEP, OH-MiNP, cx-MiNP)
parameter: 127	Naphthols (1-Naphthol, 2-Naphthol)
parameter: 47	Aromatic hydrocarbons (Benzene, Toluene, Xylenes, Ethylbenzene)
parameter: 51	Chlorinated hydrocarbons (Dichloromethane, 1,2-Dichloroethane, Trichloroethene, Tetrachloroethene, 1,1,1-Trichloroethane, Tetrachloromethane, Trichloromethane)
parameter: 54	Alcohols and Ethers (Methanol, Methyl-tert-butylether, Tetrahydrofuran, n-Butanol)
parameter: 55	Ketones (Acetone, Methyl-ethylketone, Methylisobutylketone, Methyl-n-butylketone)
parameter: 182	Aromatic hydrocarbons (Benzene, Toluene, Xylenes, Ethylbenzene)
parameter: 134	Diisocyanate metabolites, aromatic (MDA, 2,4-TDA, 2,6-TDA, 1,5-NDA)
parameter: 180	Diisocyanate metabolites, aliphatic (IPDA, HDA)
parameter: 130	Globin adducts (MeV, HEV, CEV, AAV, 2-HPV)
parameter: 95	DDT parameters (p,p'-DDT and p,p'-DDE)
parameter: 97	Hexachlorocyclohexane (α -, β -, γ -HCH)
parameter: 100	PCBs (Ballschirer numbers 28, 52, 101, 138, 153, 180)
parameter: 120	Perfluoroalkanoic acids (PFOA, PFNA, PFDA)
parameter: 121	Perfluoroalkyl sulfonic acids (PFOS, PFHxS, PFHpS, PFBS)
parameter: 140	Bisphenols (Bisphenol A, Bisphenol S, Bisphenol F)
parameter: 147	Butadiene metabolites (DHBMA, MHBMA1, MHBMA2)

parameter: 149	Acrylamide/Acrylonitrile metabolites (AAMA, GAMA, CEMA)
parameter: 152	other mercapturic acids (HEMA, 2-HPMA, 3-HPMA)
parameter: 195	Arsenic speciation (As^{3+} , As^{5+} , MMA, DMA, AsB)
parameter: 208	Benzophenones (Benzophenone-1, Benzophenone-3)
parameter: 220	DINCH metabolites (7OH-MINCH, 7oxo-MINCH, 7cx-MINCH)
parameter: 223	DEHP metabolites (5OH-MEHP, 5cx-MEPTP)
parameter: 204	Neonicotinoid parameters (6-CINA, Imidacloprid, Acetamiprid, DMAP)