German External Quality Assessment Scheme

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Information - Intercomparison programme RV75

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 75 is going to take place from **February 2025 to August 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.

If you wish to participate in **G-EQUAS 75/2025** please order online via our homepage www.g-equas.de until

March 3rd, 2025

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

Contact data:

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The required control materials will be shipped

as of March 13th to Overseas participants
as of March 18th to European participants
as of March 25th to German participants

Deadline for reporting your results is

May 15th, 2025

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

Reports and certificates will be available at the end of July.

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 **75** 19 control materials in two different concentration levels are being offered.
Please see request form RV75 and result sheet RV75 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) (Br_2-CA, cis-Cl_2-CA, trans-Cl_2-CA, CTFCA)
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 ane Ethers (Methanol, Methyl-tert-butylether, Tetrahydrofuran, n-Butanol)
parameter: **55**	Ketones (Acetone, Methylethylketone, 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 (Ballschiter 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** DEHTP metabolites (5OH-MEHTP, 5cx-MEPTP)
parameter: **204** Neonicotinoid parameters (6-ClNA, Imidacloprid, Acetamiprid, DMAP)