



German External Quality Assessment Scheme

**Intercomparison programme 74, 2024  
for toxicological analyses in biological materials**

**Prof. Kaifie Pechmann**

**on behalf of the German Society for Occupational and Environmental Medicine .e.V**

Henkestr. 9-11, D-91054 Erlangen

External Quality Control acc. to the Guidelines of the German Federal Medical Council

Participant: SD Lab,  
Mr. Min-Ho, Yang  
53-21, Dongbaekjungang-ro,  
Giheung-gu  
17013 Yongin-si  
South Korea

675

## Certificate

valid until **January 31, 2026**

This is to certify you participated in the intercomparison programme 74 / 2024 for occupational / environmental medical - toxicological analyses. In accordance with the guidelines issued by the German Federal Medical Council (Bundesärztekammer) of September 19th, 2014 on implementation of intercomparison programmes in the medical field you have fulfilled the requirements for the following parameters:

### Occupational medical field

Pb in blood  
Mn in blood  
Sb in urine  
MMA in urine  
Pb in urine  
Mn in urine  
Vanadium in urine  
MHA in urine  
PGA in urine  
As total in urine

Cd in blood  
Ni in blood  
As+3 in urine  
DMA in urine  
Cd in urine  
Ni in urine  
Creatinine in urine  
t,t-MA in urine  
SPMA in urine  
I in urine

Cr in blood  
Hg in urine  
AS+5 in urine  
AsB in urine  
Cr in urine  
Hg in urine  
MA in urine  
Phenol in urine  
o-Cresol in urine  
Mo in urine

Erlangen, 2025/01/30

Prof. Kaifie Pechmann

Prof. Dr. rer. nat. Th. Göen



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### Environmental medical field

Pb in blood  
Cd in urine  
Hg in urine  
cis-Cl<sub>2</sub>-CA in urine  
5-OH-MEHP in urine  
MEHP in urine  
PFNA in serum  
2-Naphthol in urine  
MBzP in urine  
cx-MiNP in urine  
Bisphenol S in urine  
3-PBA in urine  
Mo in urine  
MMA in urine  
TCS in urine  
7cx-MINCH in urine  
Benzophenone-1 in urine  
PFHxS in serum

Cd in blood  
Cr in urine  
1-HP in urine  
trans-Cl<sub>2</sub>-CA in urine  
5-oxo-MEHP in urine  
PFOA in serum  
PFDA in serum  
MnBP in urine  
MEP in urine  
MnHxP in urine  
Bisphenol F in urine  
FPBA in urine  
As+5 in urine  
DMA in urine  
7OH-MINCH in urine  
5OH-MEHTP in urine  
Benzophenone-3 in urine  
PFHpS in serum

Hg in blood  
Ni in urine  
Br<sub>2</sub>-CA in urine  
Cotinine in urine  
5-carboxy-MEPP in urine  
PFOS in serum  
1-Naphthol in urine  
MiBP in urine  
OH-MiNP in urine  
Bisphenol A in urine  
As total in urine  
Sb in urine  
As+3 in urine  
AsB in urine  
7oxo-MINCH in urine  
5cx-MEPTP in urine  
PFOS in serum  
PFBS in serum

Erlangen, 2025/01/30

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