

**Prof. Dr. med. H. Drexler**  
**Institute and Outpatient Clinic for Occupational, Social and Environmental Medicine of**  
**the University of Erlangen-Nuremberg**  
**Schillerstr.25 D-91054 Erlangen**

Intercomparison programme 57, 2016 for toxicological analyses in biological materials

Inst. für Arbeits-, Sozial- und Umweltmedizin, Schillerstr. 25, 91054 Erlangen

Environmental Analysis Unit  
 Occupational and Environmental Medicine  
 Att: Thomas Lundh, Dr Med Sci, Skånes  
 University Hospital  
 22185 Lund  
 Sweden

**Labor: 336**

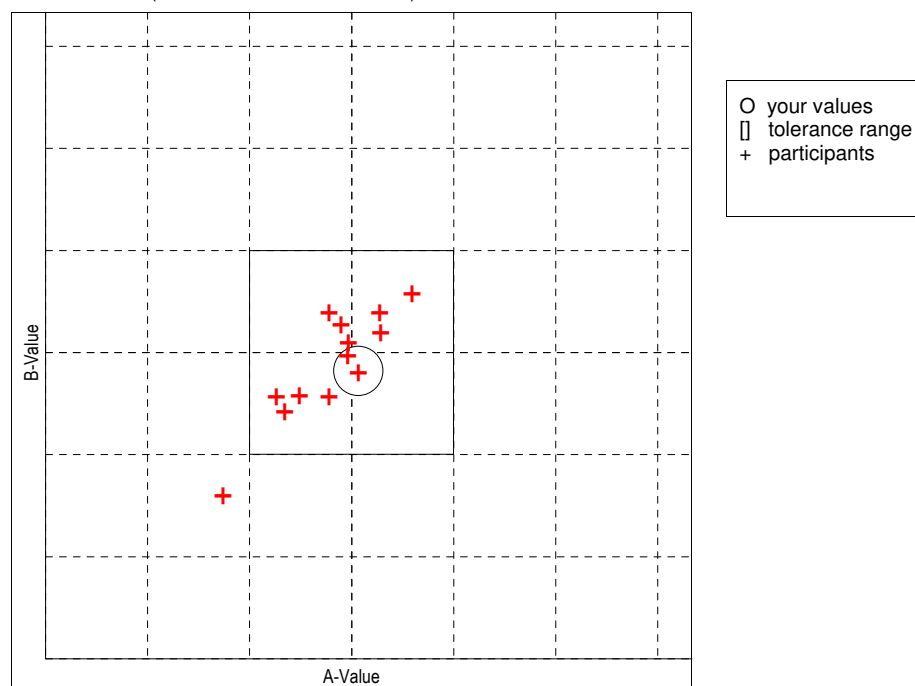


Erlangen, 2016/06/24

## Youden Plot

No.	parameter	evaluation	your results	ref. value	tolerance range	unit
83	3-PBA in urine	A: + B: +	2.100 5.840	2.072 6.063	1.655 - 2.489 4.833 - 7.293	µg/l µg/l

3-PBA in urine (Environmental medical field)



	<b>A</b>	<b>B</b>
number of participants	15	15
within 3-fold tolerance range	13	14
mean of 3-fold tolerance range	1.991	5.717
standard deviation 3-fold tolerance range	0.198	0.636
both values within tolerance range		12 Labs; (80.0%)

**Prof. Dr. med. H. Drexler**  
**Institute and Outpatient Clinic for Occupational, Social and Environmental Medicine of**  
**the University of Erlangen-Nuremberg**  
**Schillerstr.25 D-91054 Erlangen**

Intercomparison programme 57, 2016 for toxicological analyses in biological materials

Inst. für Arbeits-, Sozial- und Umweltmedizin, Schillerstr. 25, 91054 Erlangen

Environmental Analysis Unit  
 Occupational and Environmental Medicine  
 Att: Thomas Lundh, Dr Med Sci, Skånes  
 University Hospital  
 22185 Lund  
 Sweden

**Labor: 336**

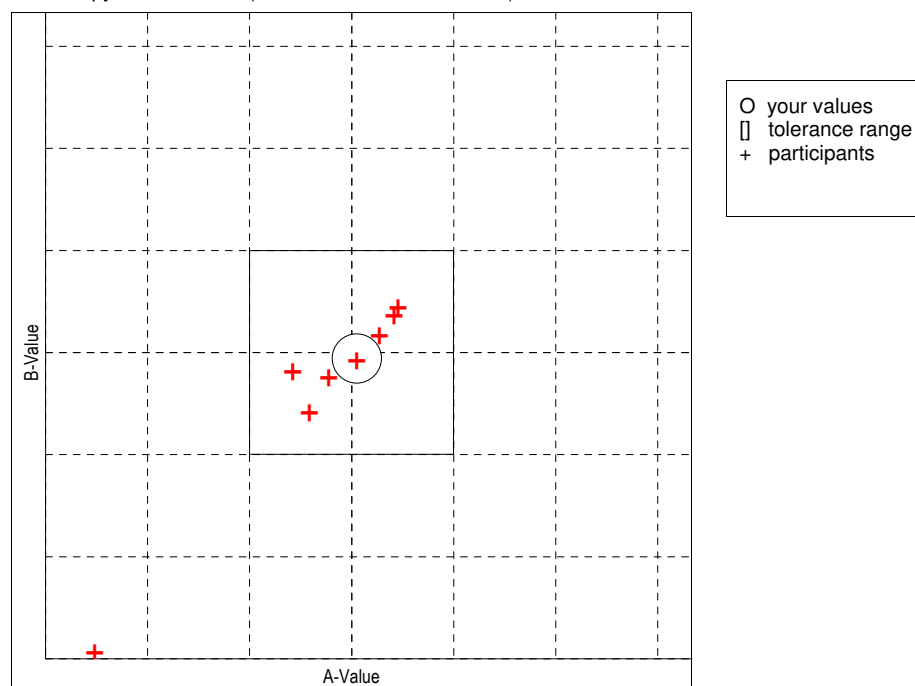


Erlangen, 2016/06/24

## Youden Plot

No.	parameter	evaluation	your results	ref. value(**)	tolerance range	unit
166	Trichloropyridinol in urine	A: + B: +	6.41 12.09	6.33 12.24	4.80 - 7.86 9.72 - 14.76	µg/l µg/l

Trichloropyridinol in urine (Environmental medical field)



	<b>A</b>	<b>B</b>
number of participants	9	9
within 3-fold tolerance range	8	8
mean of 3-fold tolerance range	5.85	11.32
standard deviation 3-fold tolerance range	1.38	2.56
both values within tolerance range		7 Labs; (77.8%)

(\*\*) consensus value: reference value based on dataset of participants



German External Quality Assessment Scheme

**Intercomparison programme 57, 2016  
for toxicological analyses in biological materials**

**Prof. Dr. med. H. Drexler**  
**on behalf of the German Society for Occupational and Environmental Medicine e.V**

Schillerstr 25, D-91054 Erlangen

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

Teilnehmer: Environmental Analysis Unit 336  
Occupational and Environmental Medicine  
Att: Thomas Lundh, Dr Med Sci, Skånes University Hospital  
22185 Lund  
Sweden

## Certificate

**valid until July 31, 2017**

This is to certify you participated in the intercomparison programme 57 / 2016 for occupational / environmental medical - toxicological analyses. In accordance with the guidelines issued by the German Federal Medical Council (Bundesärztekammer) of January 16th, 1987 and October 16th, 1987 and August 24th, 2001 on implementation of intercomparison programmes in the medical field you have fulfilled the requirements for the following parameters:

### Environmental medical field

Pb in blood  
3-PBA in urine  
MEHP in urine  
MBzP in urine  
Trichloropyridinol in urine  
Sn in urine

Pt in urine  
Cotinine in urine  
PFOA in serum  
Cu in urine  
Sb in urine

1-HP in urine  
5-OH-MEHP in urine  
PFOS in serum  
Sr in urine  
Mo in urine

Erlangen, 2016/06/24

Prof. Dr. med. H. Drexler

Prof. Dr. rer. nat. Th. Göen