Youden Plot

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

3-PBA in urine (Environmental medical field)

- Your values
- Tolerance range
- Participants

Number of participants: A = 15, B = 15
Within 3-fold tolerance range: A = 13, B = 14
Mean of 3-fold tolerance range: A = 1.991, B = 5.717
Standard deviation 3-fold tolerance range: A = 0.198, B = 0.636
Both values within tolerance range: 12 Labs; (80.0%)
Prof. Dr. med. H. Drexler  
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Schillerstr.25  D-91054 Erlangen

Intercomparison programme 57, 2016 for toxicological analyses in biological materials

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

Erlangen, 2016/06/24

Youden Plot

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

Trichloropyridinol in urine (Environmental medical field)

O your values
\[\square \] tolerance range
+ participants

\textsuperscript{**} consensus value: reference value based on dataset of participants

\begin{itemize}
\item number of participants A: 9  
B: 9
\item within 3-fold tolerance range A: 8  
B: 8
\item mean of 3-fold tolerance range A: 5.85  
B: 11.32
\item standard deviation 3-fold tolerance range A: 1.38  
B: 2.56
\item both values within tolerance range A: 7 Labs; (77.8%)  
B: 7 Labs; (77.8%)
\end{itemize}
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