

AQS Baden-Württemberg

Certificate

The laboratory

**GWA Gesellschaft für Wasser-
NL Institut für Wasser- u. Umweltanalytik
An der Ohratalsperre
99885 Luisenthal**

participated in

**Proficiency test UKWIR 7/15
WFD – Pharmaceuticals in surface water**

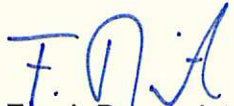
with the following single results:

<u>carbamazepine:</u>	<u>erythromycin:</u>	<u>propranolol:</u>	<u>atenolol:</u>
1. value: s	1. value: s	1. value: s	1. value: s
2. value: s	2. value: s	2. value: s	2. value: s
3. value: q	3. value: s	3. value: s	3. value: s

The assessment of the single results is described in the data assessment sheet.
The proficiency test was executed according to the requirements of ISO/TS 20612
and ISO 13528.

Stuttgart, 12 January 2015


Dr.-Ing. Michael Koch
Scientific director AQS


Dr.-Ing. Frank Baumeister
PT manager

AQS Baden-Württemberg

Proficiency test UKWIR 7/15 WFD – Pharmaceuticals in surface water

Data assessment sheet

Participant:

Date of dispatch: 14 December 2015

GWA Gesellschaft für Wasser-
und Abwasserservice mbH
NL Institut für Wasser- u. Umweltanalytik
An der Ohratalsperre
99885 Luisenthal

Laboratory code: 17

Parameter/Unit	Sample-No.	Assigned Value	Lab result	z	Assessment of the value
carbamazepine µg/l	28	0,884	0,597	-1,3	s
	29	1,245	0,839	-1,3	s
	68	0,4792	0,206	-2,3	q
erythromycin µg/l	28	0,6547	0,519	-0,8	s
	29	0,9386	0,948	0,0	s
	68	0,3594	0,348	-0,1	s
propranolol µg/l	28	0,0954	0,086	-0,4	s
	29	0,1376	0,134	-0,1	s
	68	0,0516	0,037	-1,1	s
atenolol µg/l	28	0,0946	0,064	-1,3	s
	29	0,1359	0,102	-1,0	s
	68	0,0531	0,029	-1,8	s

According to ISO 13528 (2015) the single results were assessed as follows:

$ z \leq 2,0$	satisfactory
$2,0 < z < 3,0$	questionable
$ z \geq 3,0$	unsatisfactory

Stuttgart, 12 January 2016


Dr.-Ing. Michael Koch
Scientific director AQS


Dr.-Ing. Frank Baumeister
PT manager

