

# **EVALUATION OF THE INTERLABORATORY COMPARISON TEST**

## **Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners – AZ5**

Sample dispatch on 20<sup>th</sup> March 2018

1<sup>st</sup> Edition 9<sup>th</sup> May 2018

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# 1 Interlaboratory comparison test: Pharmaceuticals, industrial chemicals and artificial sweeteners – AZ5

## 1.1 Participants and time schedule

- Number of registrations: 14
- Number of submitted data records: 14
- Dispatch of samples: 20<sup>th</sup> March 2018
- Closing date for submission of data: 17<sup>th</sup> April 2018

To anonymize results, each laboratory was given a laboratory code on a random basis.

## 1.2 Sampling, sample material and distribution

The following samples were made available

- 1 Sample surface water (AZ5 A)
- 1 Sample municipal waste water (AZ5 B)

The sampling of surface water and municipal waste water was carried out on 19<sup>th</sup> March 2018. The sample was stored at < 4 °C until further processing. Both samples were partly spiked with specific substances and were filled into bottles under continuous stirring to achieve homogeneous samples.

The samples were dispatched on 20<sup>th</sup> March 2018.

Each participant received:

- 2 samples (each 2000 ml), each filled in 2x 1000 ml aluminium bottles

## 1.3 Control testing

During filling the bottles, aliquots of each sample were collected randomly for control testing. Testing was performed close to the time of sample dispatch.

In the parameter-oriented evaluation, the results of the control testing are given in the form of arithmetic means of the detected concentrations as check value  $\pm U$ .

## 2 Evaluation

The analytical results had to be made available to the organiser not later than 17<sup>th</sup> April 2018. Any values received at a later date were not considered. A statistical evaluation of interlaboratory comparison data was only carried out if at least 6 valid results per parameter were available.

To evaluate the data, outliers were detected first by using the outlier test method according to Hampel. Values identified as conspicuous by this test method are marked specifically in the parameter-oriented evaluation. Further evaluation was performed in accordance with DIN ISO 5725-2. Results < LOQ or < LOD are not taken into account for calculation.

The adjusted average value (after removal of outliers) for all submitted results was used as a basis for the calculation of recovery rates and z-scores.

### z-Score

z-Scores were calculated on the basis of the following formula:

$$z - score = \frac{x_i - \bar{X}}{SD}$$

In this context,

$x_i$  is the measurement value of the participating laboratory.

$\bar{X}$  is the adjusted average value (i.e. after removal of outliers) of the participants' results.

$SD$  is the reproducibility standard deviation, calculated from the participants' results (after removal of outliers) in the relevant test round.

### Interpretation of z-Scores in the parameter-oriented evaluation:

- $|z| < 2$  result: good
- $2 < |z| < 3$  result: questionable
- $|z| > 3$  result: not satisfactory

### 3 Representation and interpretation of measurement results

The parameter oriented report shows the measurement values including uncertainty, recovery rate, calculated z-Score and the outliers in tabular form. The results listed in the table are also represented graphically.

The laboratory oriented report shows the results of the individual laboratories, including the recovery rates and z-Scores.

An annotation of the tables and graphics is given in section 5.

### 4 Explanatory notes

As explained in section 2, the z-Score is calculated using the reproducibility standard deviation, calculated from the participants' results (after removal of outliers) in the relevant test round. As a consequence it might occur that the z-Score between -2 and 2 covers an extraordinary range, due to a high variance of the results.

The recovery rate is calculated for the individual result based on the target value. Therefore, in the case of a high variance of the results, participants should also consider recovery rates as an indicator for the necessity of internal quality assurance measures.

- **Cf. sample AZ5 A:** Sucralose (n=7)
- **Cf. sample AZ5 B:** Atenolol (n=7), Metoprolol (n=11), Saccharin (n=8)

Sample AZ5 A: For the parameters 4-Acetylaminoantipyrine, 4-Formylaminoantipyrine, 10,11-Dihydro-10,11-Dihydroxycarbamazepine, Atenolol, Bisoprolol, Diazepam and Ibuprofen no target value was calculated because of the low analyte content and/or the small number of submitted results.

Sample AZ5 B: For the parameters 4-Acetylaminoantipyrine, 4-Formylaminoantipyrine, 10,11-Dihydro-10,11-Dihydroxycarbamazepine, Bisoprolol, Cyclamate, Diazepam and Ibuprofen no target value was calculated because of the low analyte content and/or the small number of submitted results.

## 5 Annotations on tables and charts

### 5.1 Information and abbreviations in tables

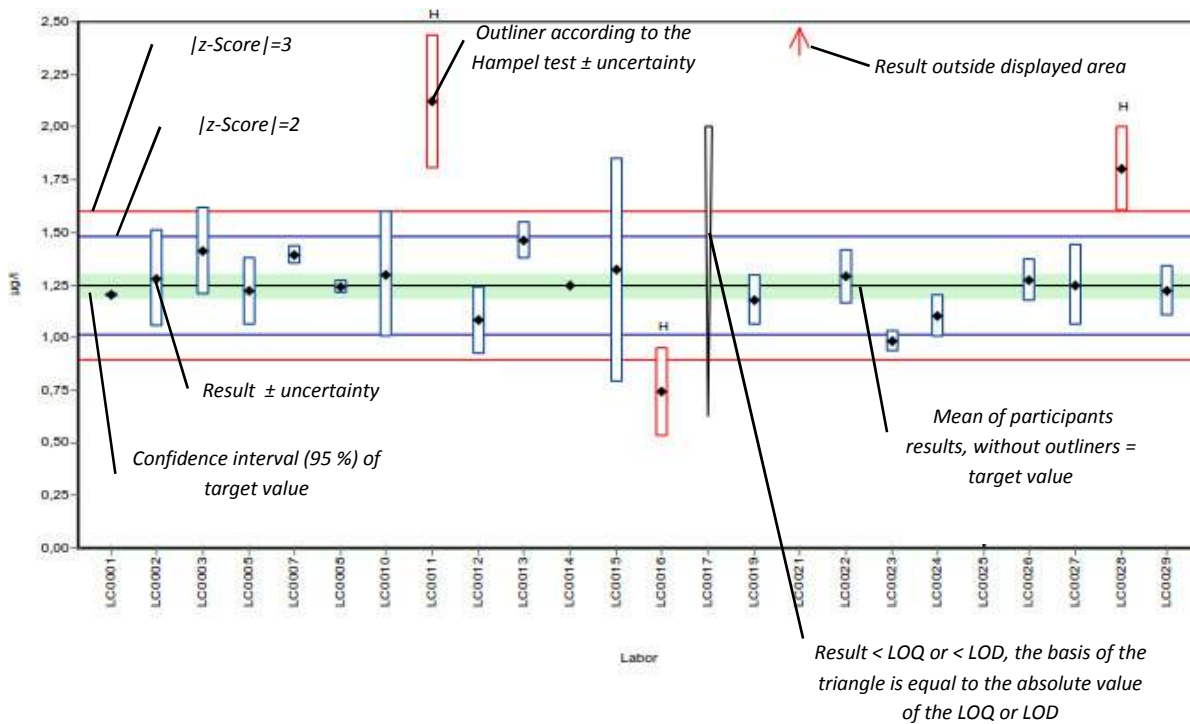
Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. µg/l)
Mean	Mean of the participants results, without outliers (3 significant digits)
CI (99 %)	99% confidence interval (3 significant digits)
Minimum	Minimum of all submitted results, after removal of outliers (3 significant digits)
Maximum	Maximum of all submitted results, after removal of outliers (3 significant digits)
SD	Reproducibility standard deviation, calculated from the participants results, after removal of outliers (3 significant digits)
RSD %	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, after removal of outliers (2 significant digits)
Check value ± U	Mean of check value ± measurement uncertainty (3 significant digits)
Labcode	Laboratory identifier (anonymized)
Result	Result as indicated by participant (max. 5 decimal places)
± U	Results uncertainty as indicated by participant (max. 5 decimal places)
LOQ	Limit of quantification
LOD	Limit of detection
Recovery	Recovery rate in % based on target value (3 significant digits, max. one decimal place given)
z-Score	Deviation of result based on target value depicted as a multiple of the criteria (3 significant digits, max. 2 decimal places given)
-	<i>No data available</i>
Comments	Comment on the respective result (e.g. H, FN, FP)
H	Outlier according to Hampel-Test
FN	False negative – for a result < LOQ or result < LOD: The absolute value of the LOQ or LOD fulfils the condition of an outlier according to the Hampel test.
FP	False positive – for parameters where no target value is available because of a too low analyte content (n < 6): Result that exceeds the median of the absolute values of the transmitted LOQs or LODs by more than 100 %.

Standard deviation	Reproducibility standard deviation, calculated from the participants results (3 significant digits)
Rel. standard deviation	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, (3 significant digits)
n	Number of results
Target value	Mean of the participants results, without outliers (3 significant digits), unless stated otherwise in section 4
Criteria	Criteria for z-Score calculation. The given value matches the reproducibility standard deviation, calculated from the participants' results, after removal of outliers (3 significant digits), unless stated otherwise in section 4.

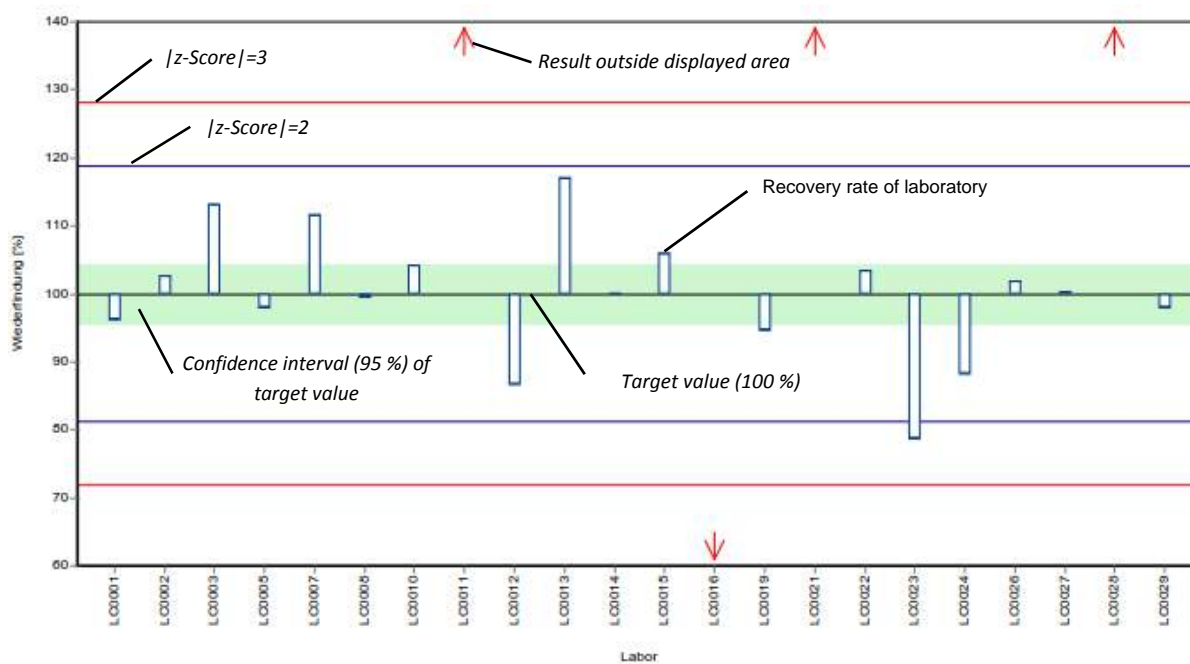


## 5.2 Graphical presentation of results

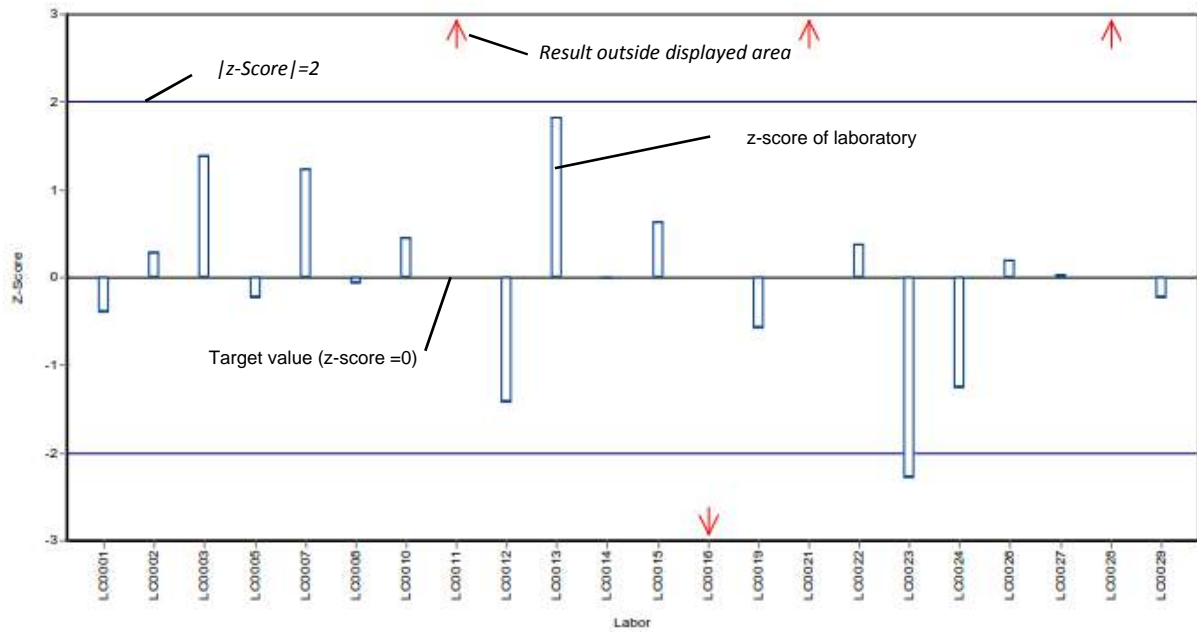
### Example chart: Results



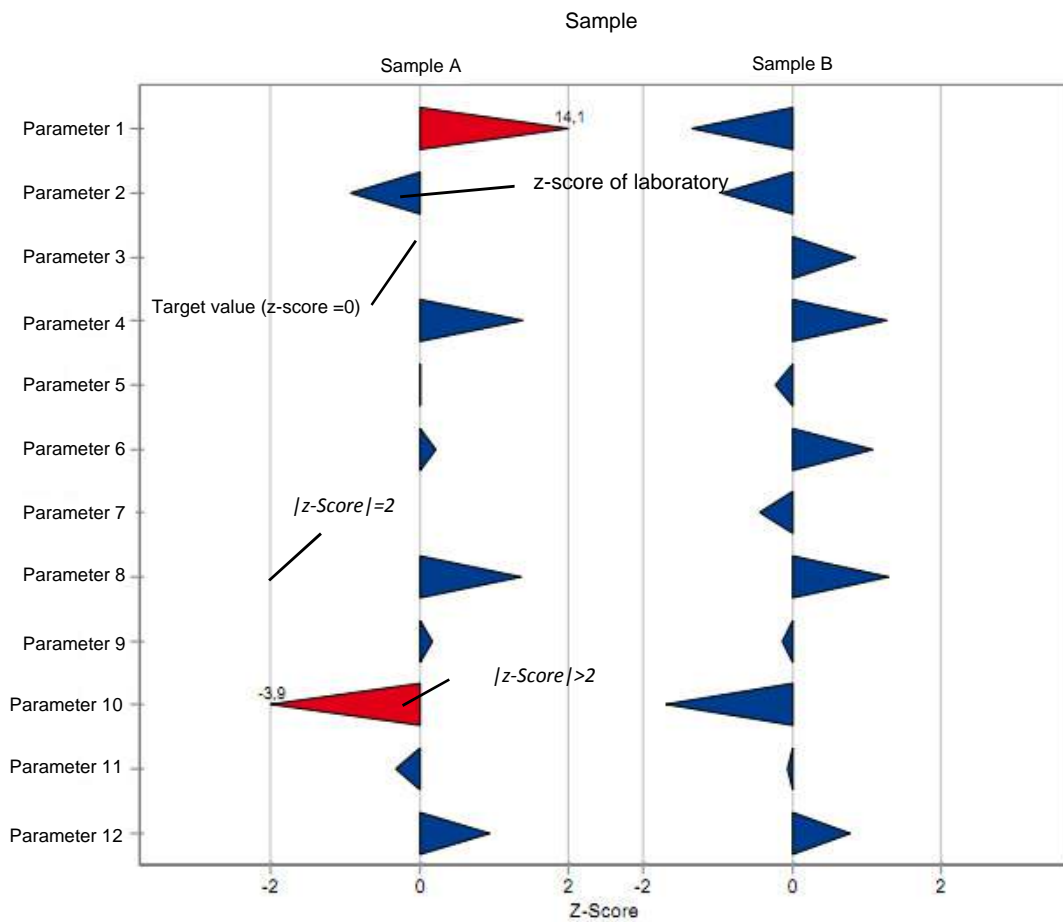
### Example chart: Recovery



**Example chart: z-score**



**Example chart: z-score - laboratory oriented report**



Summary of results, after removal of outliers: Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

## 6 Summary of results, after removal of outliers

Parameter	Sample	Unit	Number of results for calculation	Number of outliers	Mean	± CI (99%)	Minimum	Maximum	SD	RSD %	
4-Acetylaminoantipyrine	AZ5 A	µg/l	3	0	-	±	-	0.183	0.206	-	-
	AZ5 B	µg/l	3	0	-	±	-	3.08	3.28	-	-
4-Formylaminoantipyrine	AZ5 A	µg/l	3	0	-	±	-	0.078	0.086	-	-
	AZ5 B	µg/l	3	0	-	±	-	2.47	2.76	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	AZ5 A	µg/l	2	0	-	±	-	0.033	0.107	-	-
	AZ5 B	µg/l	2	0	-	±	-	0.803	1.13	-	-
Acesulfame	AZ5 A	µg/l	12	0	0.281	± 0.0434	0.2	0.364	0.0501	18	
	AZ5 B	µg/l	12	0	8.99	± 1.33	7.48	12.6	1.53	17	
Amidotrizoic acid	AZ5 A	µg/l	7	1	0.27	± 0.0556	0.228	0.365	0.0491	18	
	AZ5 B	µg/l	6	2	1.06	± 0.297	0.599	1.3	0.243	23	
Atenolol	AZ5 A	µg/l	2	0	-	±	-	0.002	0.0026	-	-
	AZ5 B	µg/l	7	0	0.537	± 0.153	0.292	0.738	0.135	25	
Benzotriazole	AZ5 A	µg/l	8	3	0.26	± 0.0192	0.24	0.3	0.0181	7	
	AZ5 B	µg/l	9	1	8.02	± 1.13	6.86	10.2	1.13	14	
Bisoprolol	AZ5 A	µg/l	2	0	-	±	-	0.09	0.276	-	-
	AZ5 B	µg/l	2	0	-	±	-	0.0971	0.352	-	-
Carbamazepine	AZ5 A	µg/l	11	1	0.0897	± 0.00798	0.076	0.099	0.00883	9.8	
	AZ5 B	µg/l	11	1	0.432	± 0.0683	0.292	0.583	0.0755	17	
Cyclamate	AZ5 A	µg/l	9	1	0.0672	± 0.0141	0.0416	0.089	0.0141	21	
	AZ5 B	µg/l	5	1	-	±	-	0.0174	0.055	-	-
Diazepam	AZ5 A	µg/l	3	0	-	±	-	0.135	0.21	-	-
	AZ5 B	µg/l	1	0	-	±	-	0.191	0.191	-	-
Diclofenac	AZ5 A	µg/l	12	0	0.143	± 0.0262	0.102	0.218	0.0302	21	
	AZ5 B	µg/l	11	1	2.79	± 0.254	2.4	3.27	0.281	10	
Ibuprofen	AZ5 A	µg/l	4	0	-	±	-	0.012	0.017	-	-
	AZ5 B	µg/l	4	0	-	±	-	0.782	0.971	-	-

Summary of results, after removal of outliers: Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Parameter	Sample	Unit	Number of results for calculation	Number of outliers	Mean	± CI (99%)	Minimum	Maximum	SD	RSD %
Iopamidol	AZ5 A	µg/l	7	1	0.294	± 0.0528	0.227	0.361	0.0465	16
	AZ5 B	µg/l	7	1	9.93	± 1.84	7.18	12.2	1.62	16
Metoprolol	AZ5 A	µg/l	8	3	0.109	± 0.00791	0.096	0.12	0.00746	6.9
	AZ5 B	µg/l	11	0	0.252	± 0.0771	0.114	0.401	0.0853	34
Saccharin	AZ5 A	µg/l	9	0	0.128	± 0.0209	0.098	0.161	0.0209	16
	AZ5 B	µg/l	8	1	12.9	± 0.573	12.4	13.7	0.541	4.2
Sotalol	AZ5 A	µg/l	9	0	0.0981	± 0.0142	0.072	0.115	0.0142	14
	AZ5 B	µg/l	9	0	0.236	± 0.0351	0.175	0.298	0.0351	15
Sucralose	AZ5 A	µg/l	7	0	0.395	± 0.15	0.201	0.55	0.133	34
	AZ5 B	µg/l	7	1	8.28	± 2.08	5.7	11.5	1.84	22
Sulfamethoxazole	AZ5 A	µg/l	12	0	0.0839	± 0.00731	0.067	0.094	0.00845	10
	AZ5 B	µg/l	12	0	0.148	± 0.0116	0.131	0.18	0.0134	9

## 7 Parameter oriented report

4-Acetylaminoantipyrine .....	14
4-Formylaminoantipyrine .....	18
10,11-Dihydro-10,11-Dihydroxycarbamazepine.....	22
Acesulfame .....	26
Amidotrizoic acid .....	34
Atenolol .....	42
Benzotriazole .....	48
Bisoprolol .....	56
Carbamazepine.....	60
Cyclamate .....	68
Diazepam.....	74
Diclofenac .....	78
Ibuprofen.....	86
Iopamidol.....	90
Metoprolol .....	98
Saccharin .....	106
Sotalol .....	114
Sucralose .....	122
Sulfamethoxazole.....	130

## Parameter oriented report

### AZ5 A

#### 4-Acetylaminoantipyrine

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.183 - 0.206
Control test value ± U	0.162 ± 0.0243

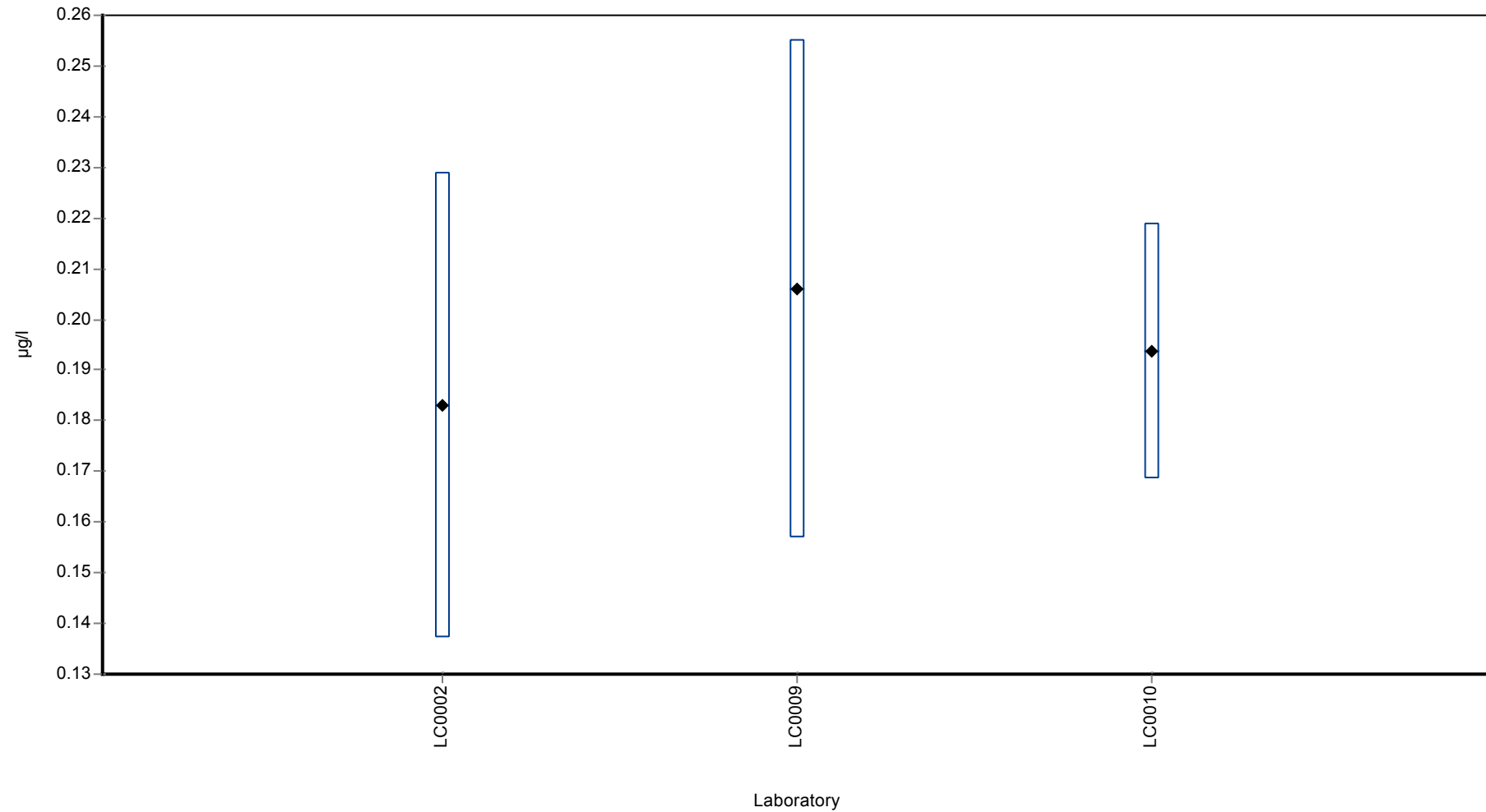
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.183	0.046	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	0.206	0.0491	-	-	
LC0010	0.1936	0.0252	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.194 ± 0.0199	-	µg/l
Minimum	0.183	0.183	µg/l
Maximum	0.206	0.206	µg/l
Standard deviation	0.0115	-	µg/l
rel. Standard deviation	5.93	-	%
n	3	3	-

Graphical presentation of results

Results



## Parameter oriented report

### AZ5 B

#### 4-Acetylaminoantipyrine

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	3.08 - 3.28
Control test value ± U	2.81 ± 0.421

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	3.08	0.77	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	3.16	0.754	-	-	
LC0010	3.2815	0.4266	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

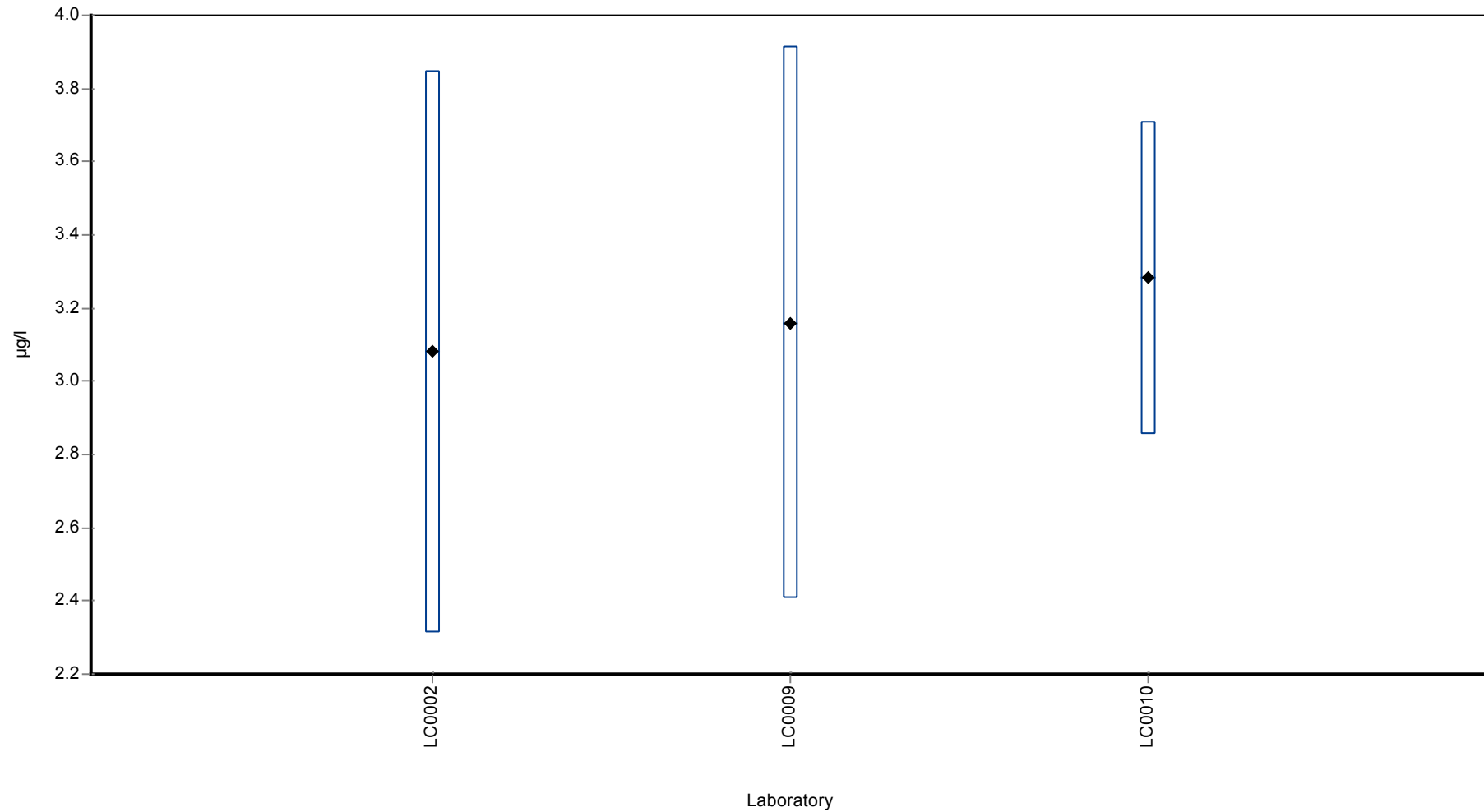
#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	3.17 ± 0.176	-	µg/l
Minimum	3.08	3.08	µg/l
Maximum	3.28	3.28	µg/l
Standard deviation	0.101	-	µg/l
rel. Standard deviation	3.2	-	%
n	3	3	-



Graphical presentation of results

Results



## Parameter oriented report

### AZ5 A

#### 4-Formylaminoantipyrine

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.078 - 0.086
Control test value ± U	0.073 ± 0.0109

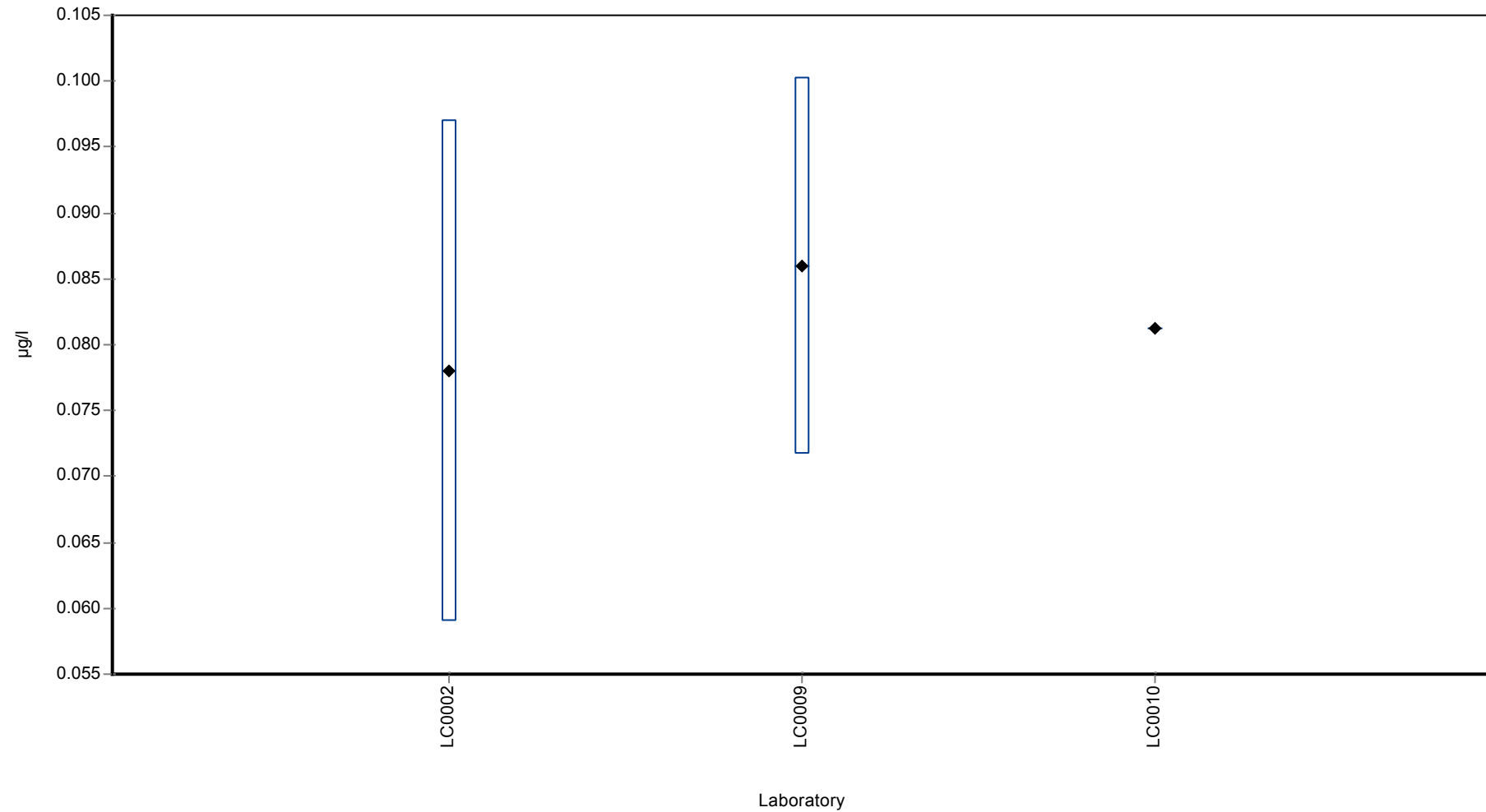
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.078	0.019	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	0.086	0.0143	-	-	
LC0010	0.0813	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.0818 ± 0.00696	-	µg/l
Minimum	0.078	0.078	µg/l
Maximum	0.086	0.086	µg/l
Standard deviation	0.00402	-	µg/l
rel. Standard deviation	4.92	-	%
n	3	3	-

Graphical presentation of results

Results



## Parameter oriented report

### AZ5 B

#### 4-Formylaminoantipyrine

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	2.47 - 2.76
Control test value ± U	2.58 ± 0.387

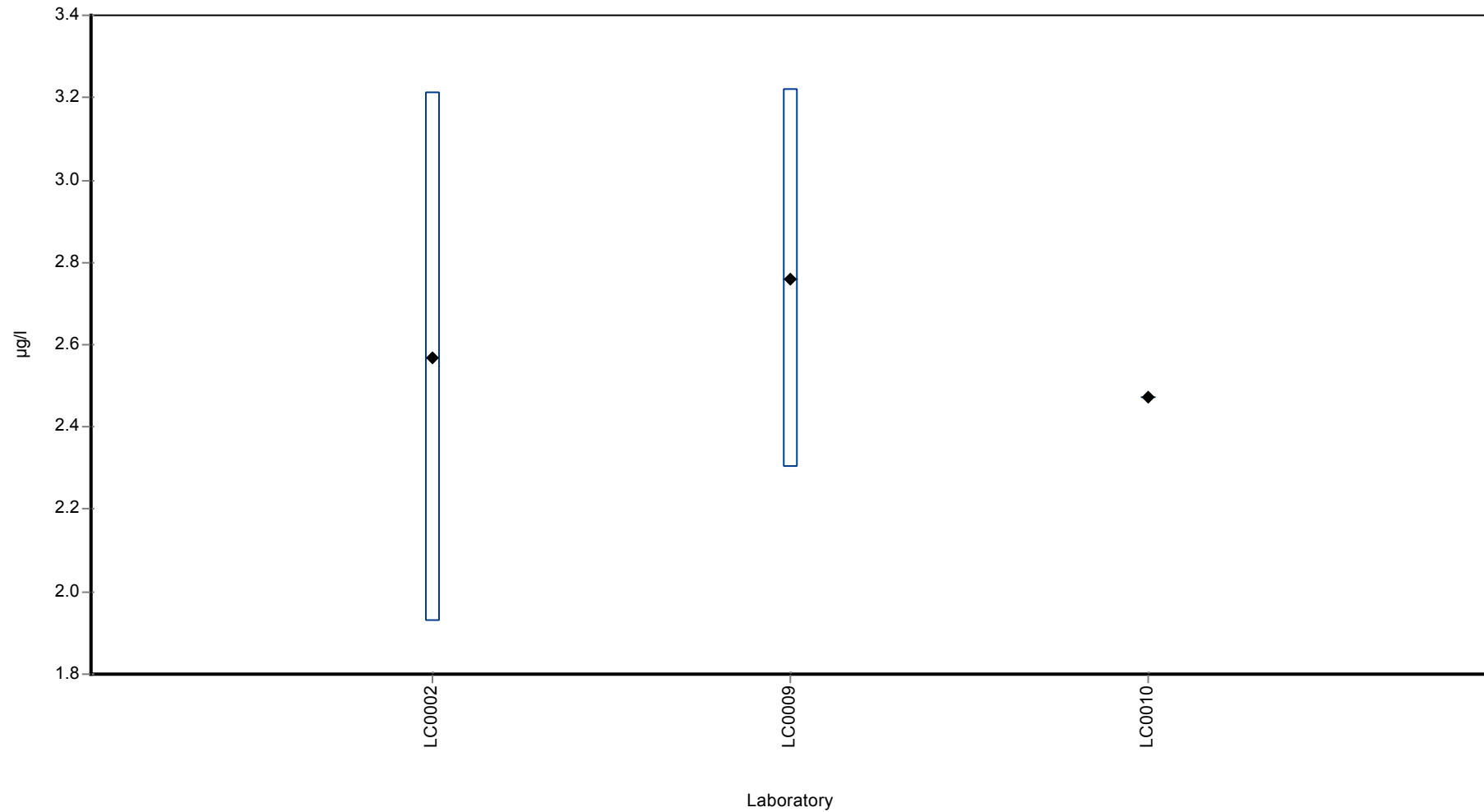
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	2.57	0.643	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	2.76	0.459	-	-	
LC0010	2.4727	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	2.6 ± 0.253	-	µg/l
Minimum	2.47	2.47	µg/l
Maximum	2.76	2.76	µg/l
Standard deviation	0.146	-	µg/l
rel. Standard deviation	5.62	-	%
n	3	3	-

Graphical presentation of results

Results



## Parameter oriented report

### AZ5 A

#### 10,11-Dihydro-10,11-Dihydroxycarbamazepine

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.033 - 0.107
Control test value ± U	0.102 ± 0.0153

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.107	0.027	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	0.033	0.003	-	-	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

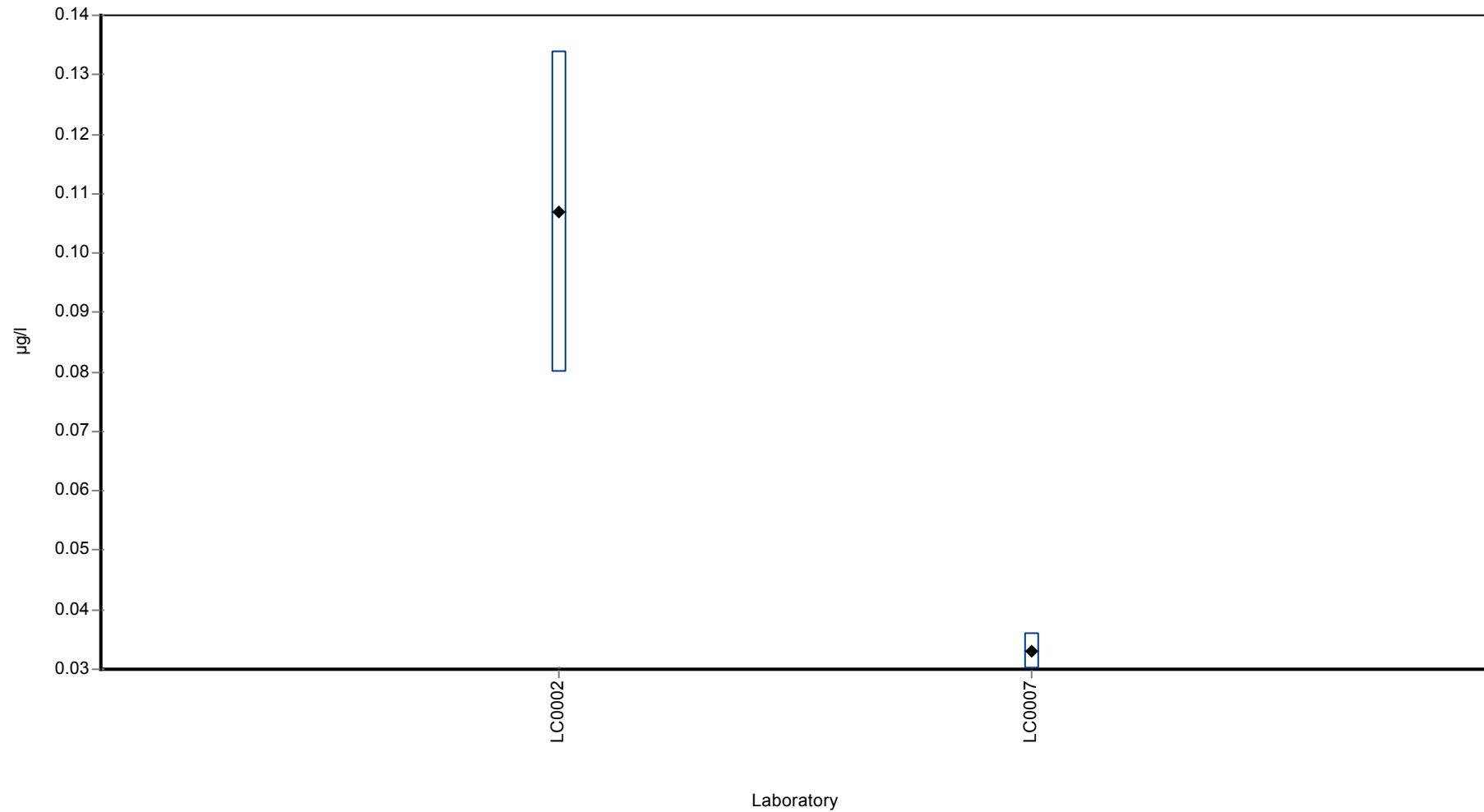
	all results	without outliers	Unit
Mean ± CI (99%)	0.07 ± 0.111	-	µg/l
Minimum	0.033	0.033	µg/l
Maximum	0.107	0.107	µg/l
Standard deviation	0.0523	-	µg/l
rel. Standard deviation	74.8	-	%
n	2	2	-

Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: 10,11-Dihydro-10,11-Dihydroxycarbamazepine

**Graphical presentation of results**

**Results**



## Parameter oriented report

### AZ5 B

#### 10,11-Dihydro-10,11-Dihydroxycarbamazepine

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.803 - 1.13
Control test value ± U	1.28 ± 0.191

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	1.13	0.283	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	0.803	0.078	-	-	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.967 ± 0.491	-	µg/l
Minimum	0.803	0.803	µg/l
Maximum	1.13	1.13	µg/l
Standard deviation	0.231	-	µg/l
rel. Standard deviation	23.9	-	%
n	2	2	-

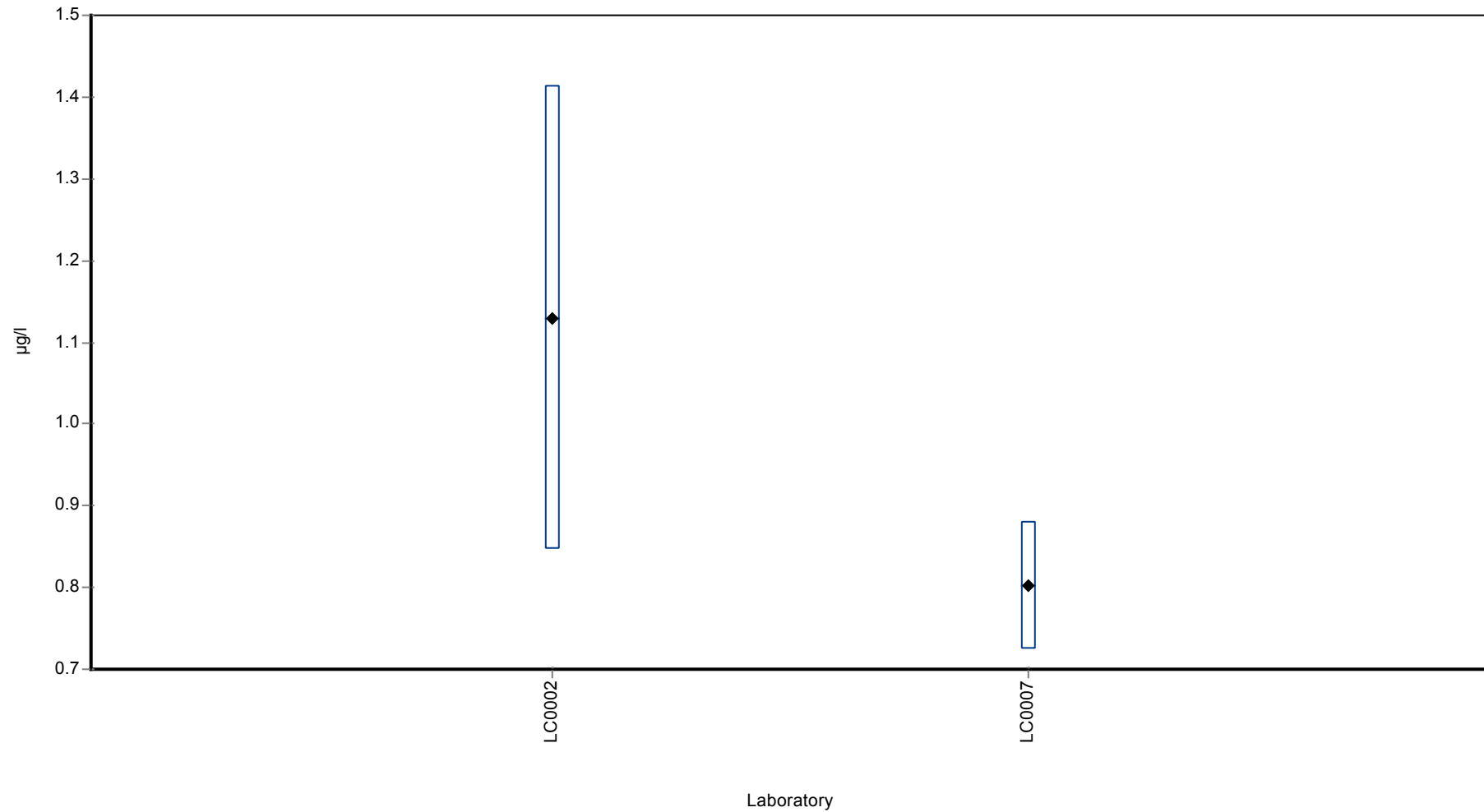


Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: 10,11-Dihydro-10,11-Dihydroxycarbamazepine

**Graphical presentation of results**

**Results**



## Parameter oriented report

### AZ5 A

#### Acesulfame

Unit	µg/l
Mean ± CI (99%)	0.281 ± 0.0434
Minimum - Maximum	0.2 - 0.364
Control test value ± U	0.272 ± 0.0408

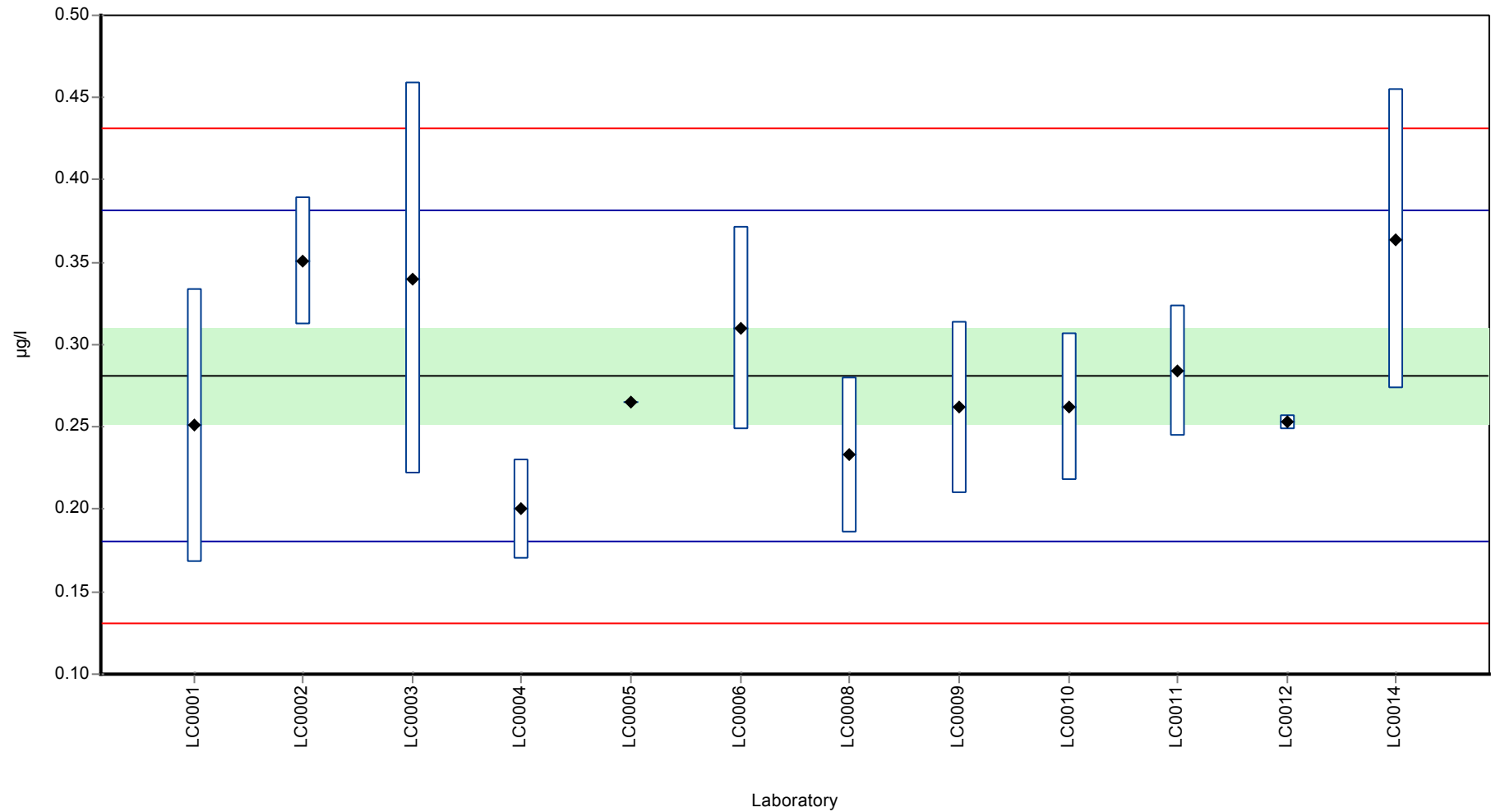
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.251	0.083	89.2	-0.6	
LC0002	0.351	0.0386	125	1.39	
LC0003	0.34	0.119	121	1.17	
LC0004	0.2	0.03	71.1	-1.62	
LC0005	0.265	-	94.2	-0.32	
LC0006	0.31	0.062	110	0.57	
LC0007	-	-	-	-	
LC0008	0.233	0.047	82.8	-0.96	
LC0009	0.262	0.0524	93.2	-0.38	
LC0010	0.2623	0.0446	93.3	-0.38	
LC0011	0.284	0.04	101	0.05	
LC0012	0.2528	0.0044	89.9	-0.57	
LC0013	-	-	-	-	
LC0014	0.364	0.091	129	1.65	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.281 ± 0.0434	0.281 ± 0.0434	µg/l
Minimum	0.2	0.2	µg/l
Maximum	0.364	0.364	µg/l
Standard deviation	0.0501	0.0501	µg/l
rel. Standard deviation	17.8	17.8	%
n	12	12	-

Graphical presentation of results

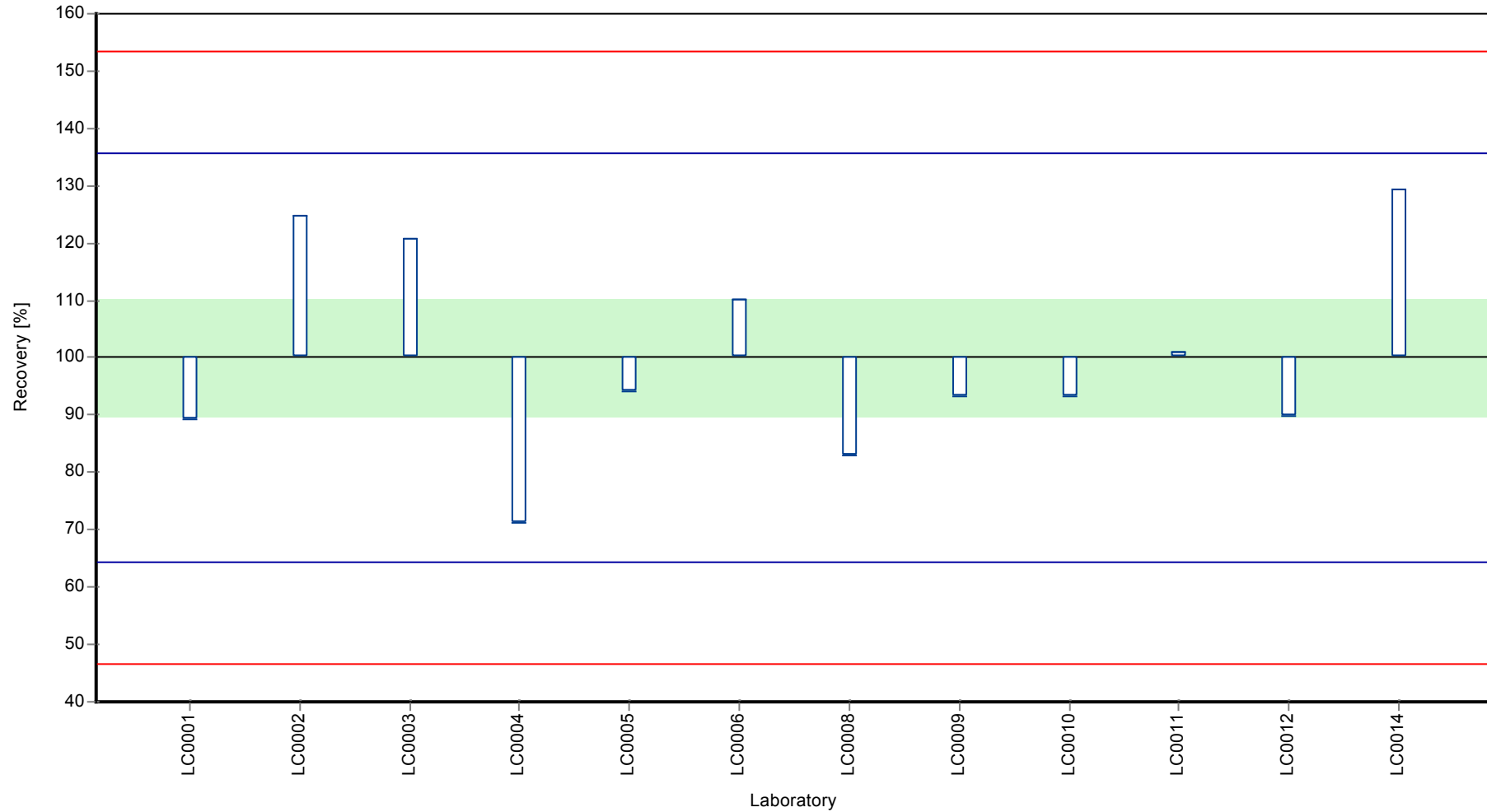
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Acesulfame

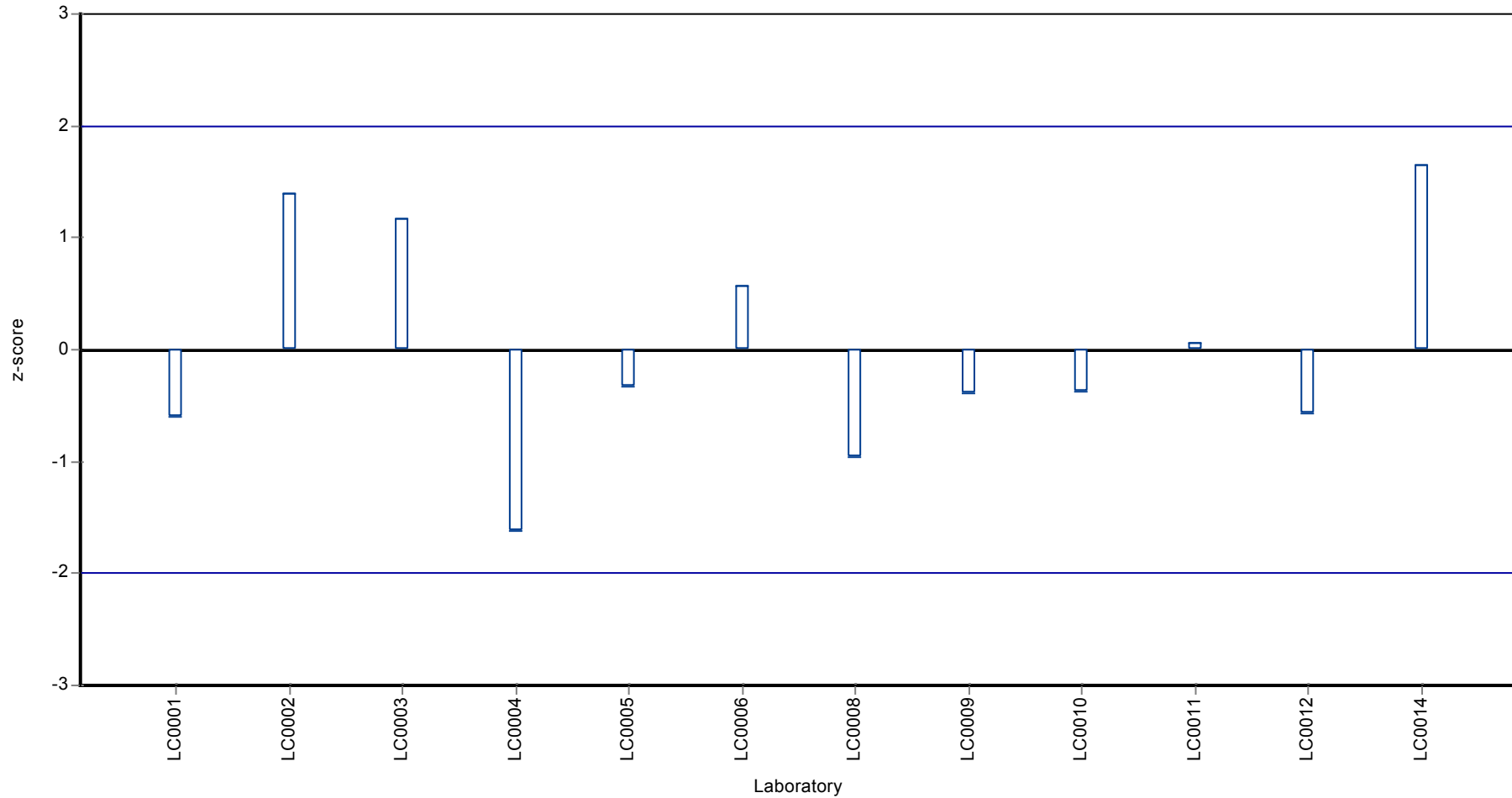
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Acesulfame

**Z-score**



## Parameter oriented report

### AZ5 B

#### Acesulfame

Unit	µg/l
Mean ± CI (99%)	8.99 ± 1.33
Minimum - Maximum	7.48 - 12.6
Control test value ± U	11.2 ± 1.68

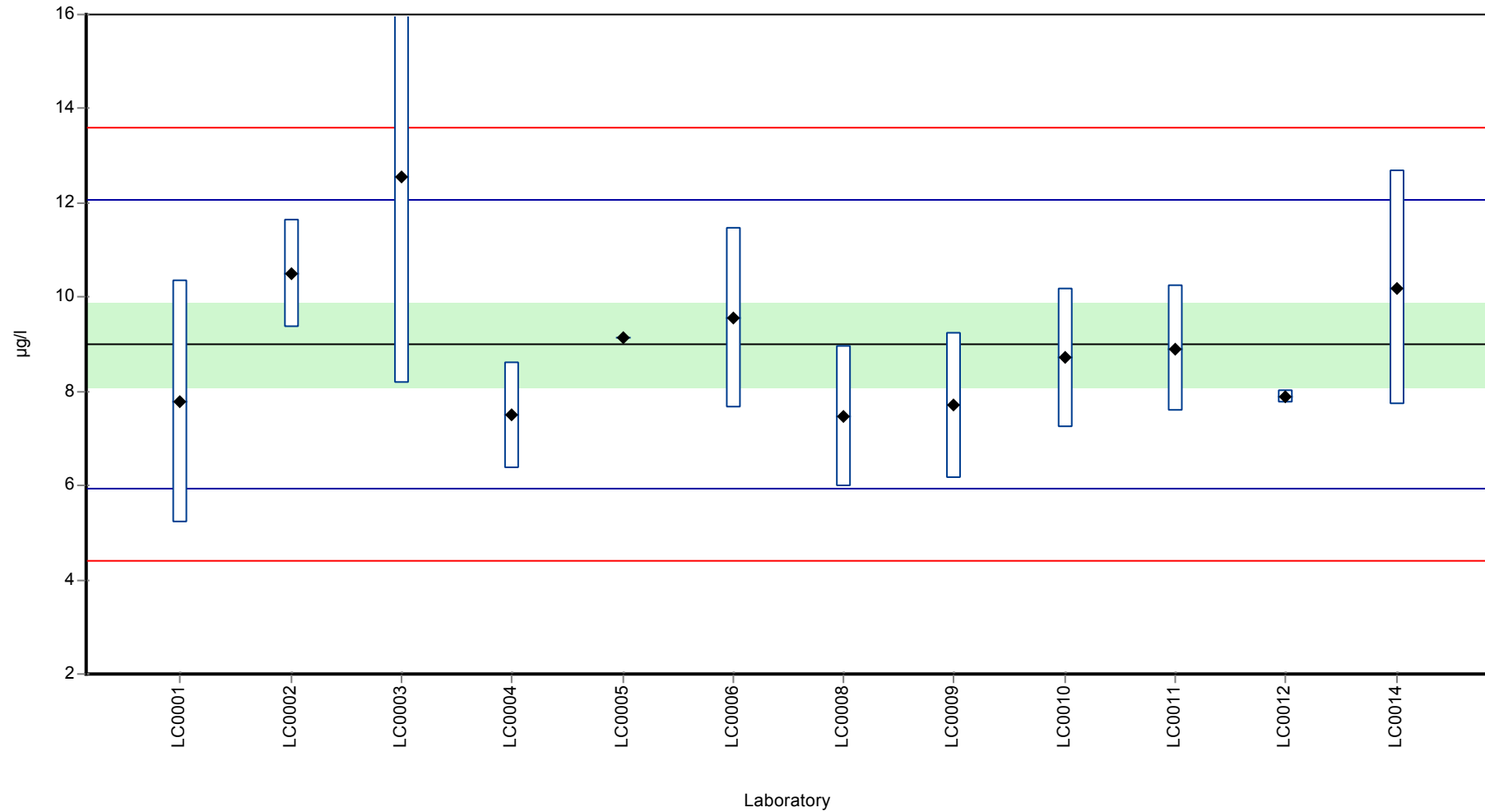
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	7.787	2.57	86.6	-0.79	
LC0002	10.5	1.155	117	0.98	
LC0003	12.566	4.398	140	2.33	
LC0004	7.5	1.13	83.4	-0.98	
LC0005	9.136	-	102	0.09	
LC0006	9.56	1.91	106	0.37	
LC0007	-	-	-	-	
LC0008	7.48	1.5	83.2	-0.99	
LC0009	7.7	1.54	85.6	-0.84	
LC0010	8.7155	1.4816	96.9	-0.18	
LC0011	8.897	1.34	98.9	-0.06	
LC0012	7.8868	0.1388	87.7	-0.72	
LC0013	-	-	-	-	
LC0014	10.2	2.5	113	0.79	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	8.99 ± 1.33	8.99 ± 1.33	µg/l
Minimum	7.48	7.48	µg/l
Maximum	12.6	12.6	µg/l
Standard deviation	1.53	1.53	µg/l
rel. Standard deviation	17	17	%
n	12	12	-

Graphical presentation of results

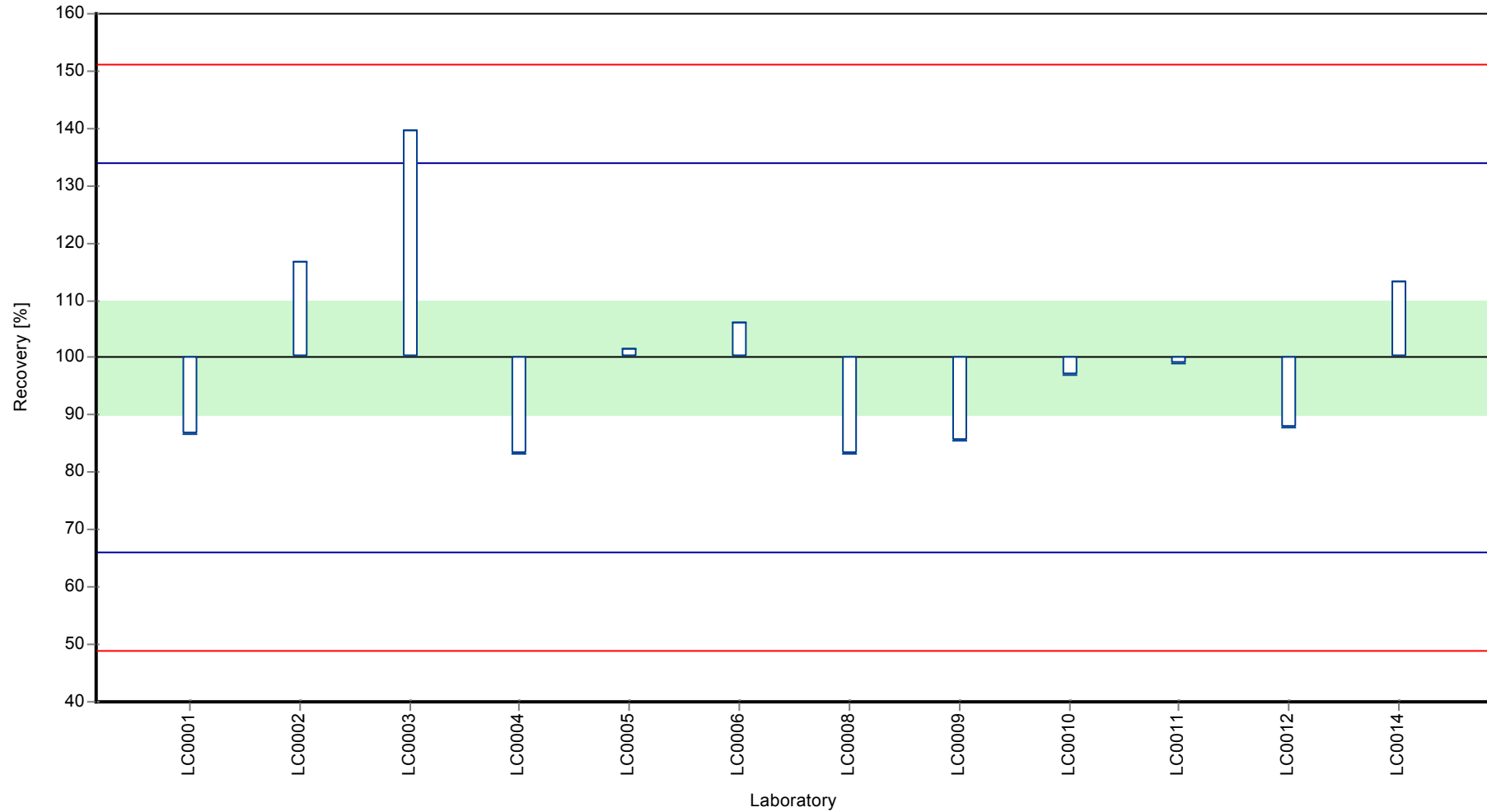
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Acesulfame

**Recovery rate**

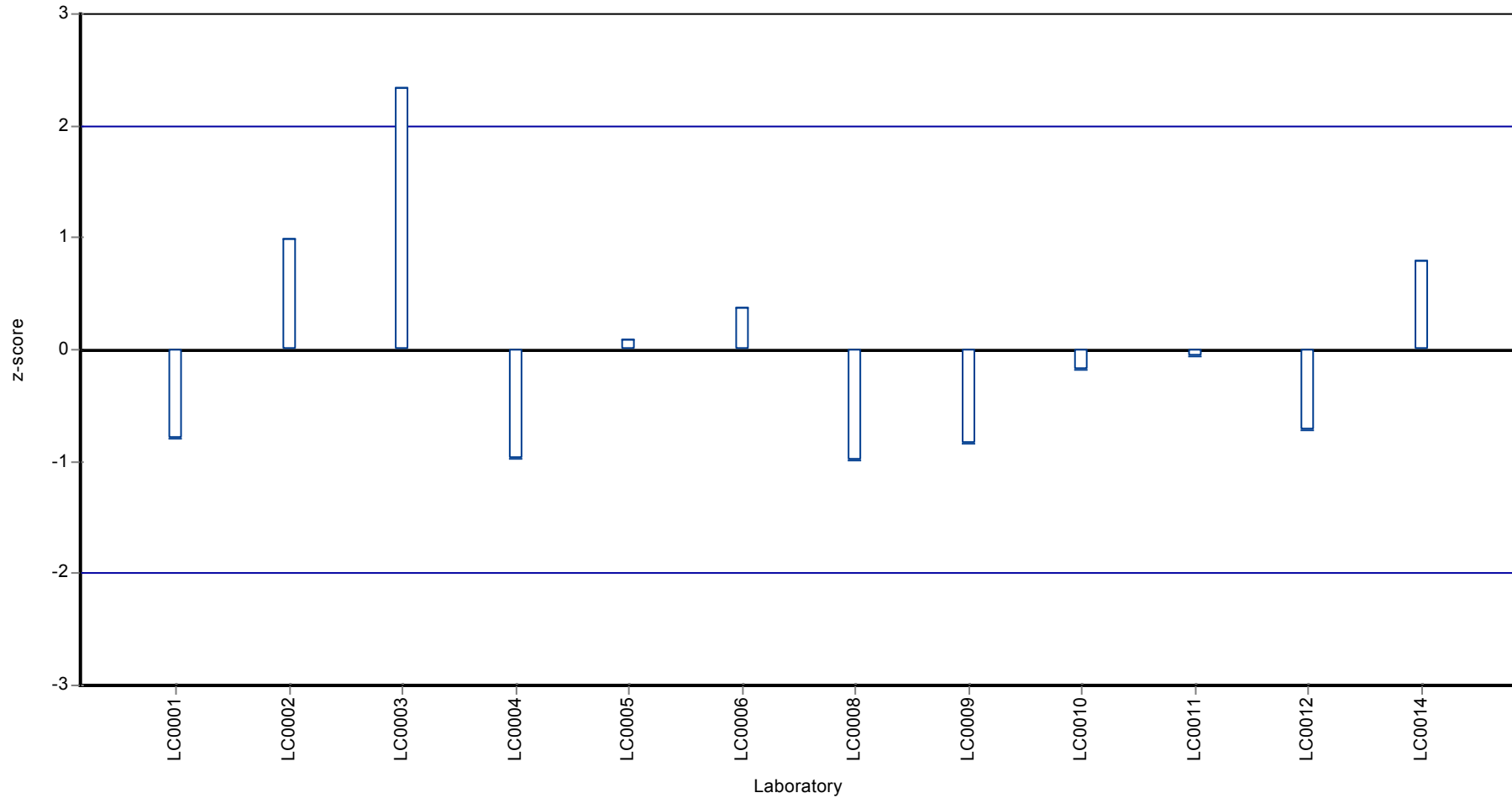




Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Acesulfame

**Z-score**



## Parameter oriented report

### AZ5 A

#### Amidotrizoic acid

Unit	µg/l
Mean ± CI (99%)	0.27 ± 0.0556
Minimum - Maximum	0.228 - 0.365
Control test value ± U	0.293 ± 0.044

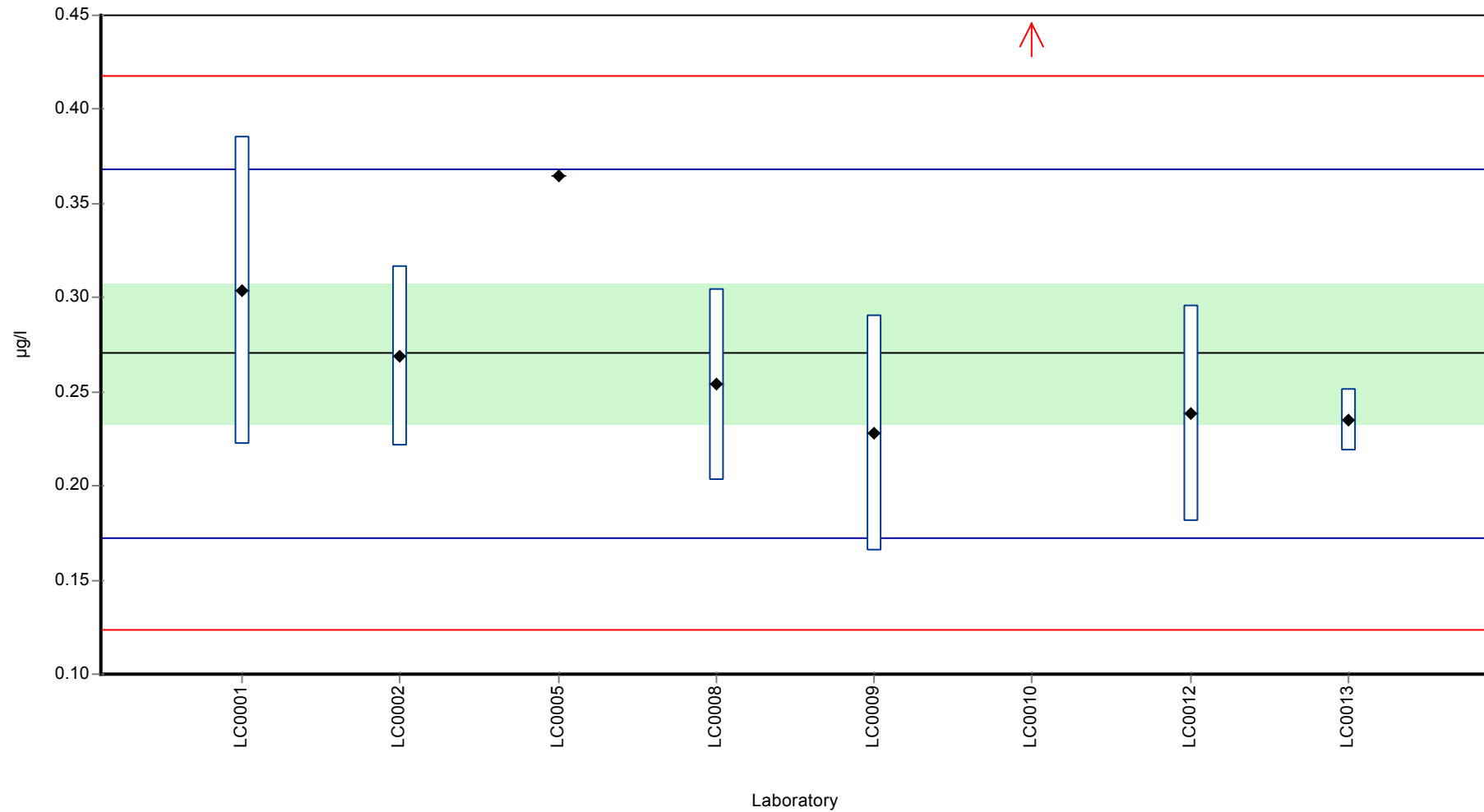
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.304	0.082	112	0.68	
LC0002	0.269	0.048	99.5	-0.03	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	0.365	-	135	1.93	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	0.254	0.051	93.9	-0.34	
LC0009	0.228	0.0631	84.3	-0.87	
LC0010	1.0515	0.2734	389	15.9	H
LC0011	-	-	-	-	
LC0012	0.2382	0.0575	88.1	-0.66	
LC0013	0.235	0.01645	86.9	-0.72	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.368 ± 0.297	0.27 ± 0.0556	µg/l
Minimum	0.228	0.228	µg/l
Maximum	1.05	0.365	µg/l
Standard deviation	0.28	0.0491	µg/l
rel. Standard deviation	76	18.1	%
n	8	7	-

Graphical presentation of results

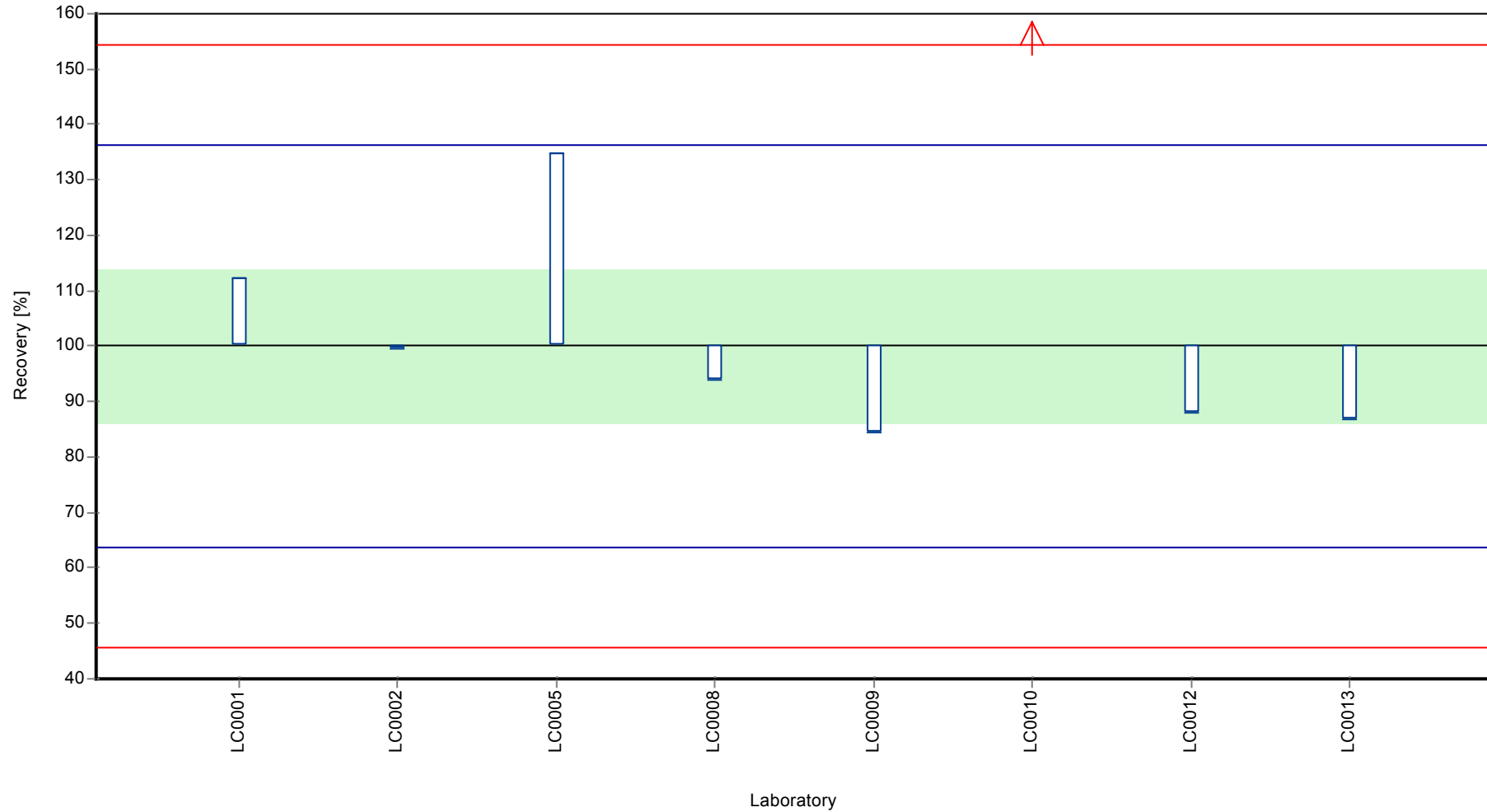
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Amidotrizoic acid

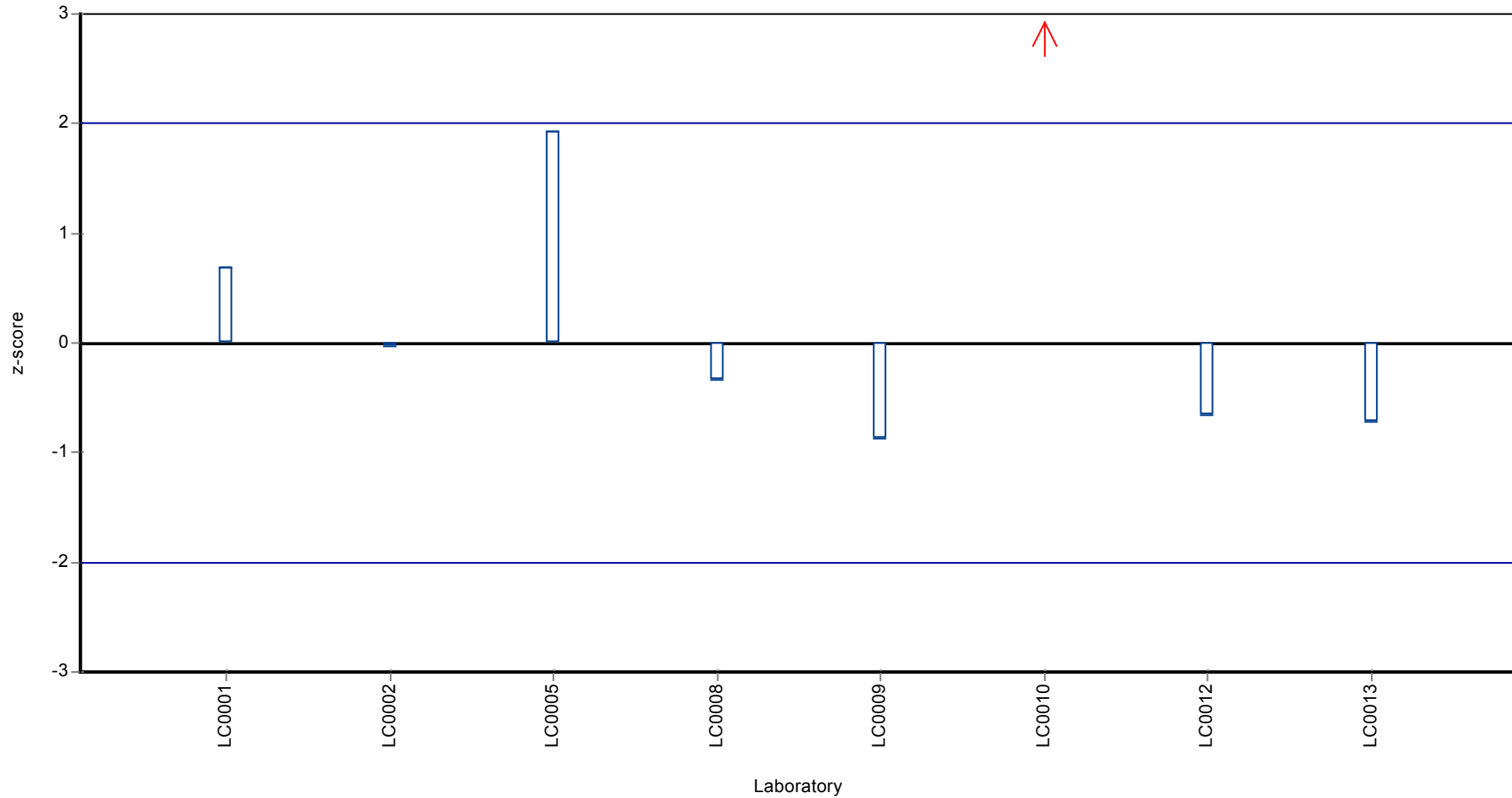
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Amidotrizoic acid

**Z-score**



## Parameter oriented report

### AZ5 B

#### Amidotrizoic acid

Unit	µg/l
Mean ± CI (99%)	1.06 ± 0.297
Minimum - Maximum	0.599 - 1.3
Control test value ± U	1.25 ± 0.188

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.195	0.323	113	0.55	
LC0002	1.3	0.234	122	0.98	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	1.832	-	173	3.17	H
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	1.13	0.23	106	0.28	
LC0009	1.09	0.303	103	0.12	
LC0010	0.2556	0.0665	24.1	-3.32	H
LC0011	-	-	-	-	
LC0012	0.5987	0.1445	56.4	-1.91	
LC0013	1.0573	0.05287	99.6	-0.02	
LC0014	-	-	-	-	

#### Characteristics of parameter

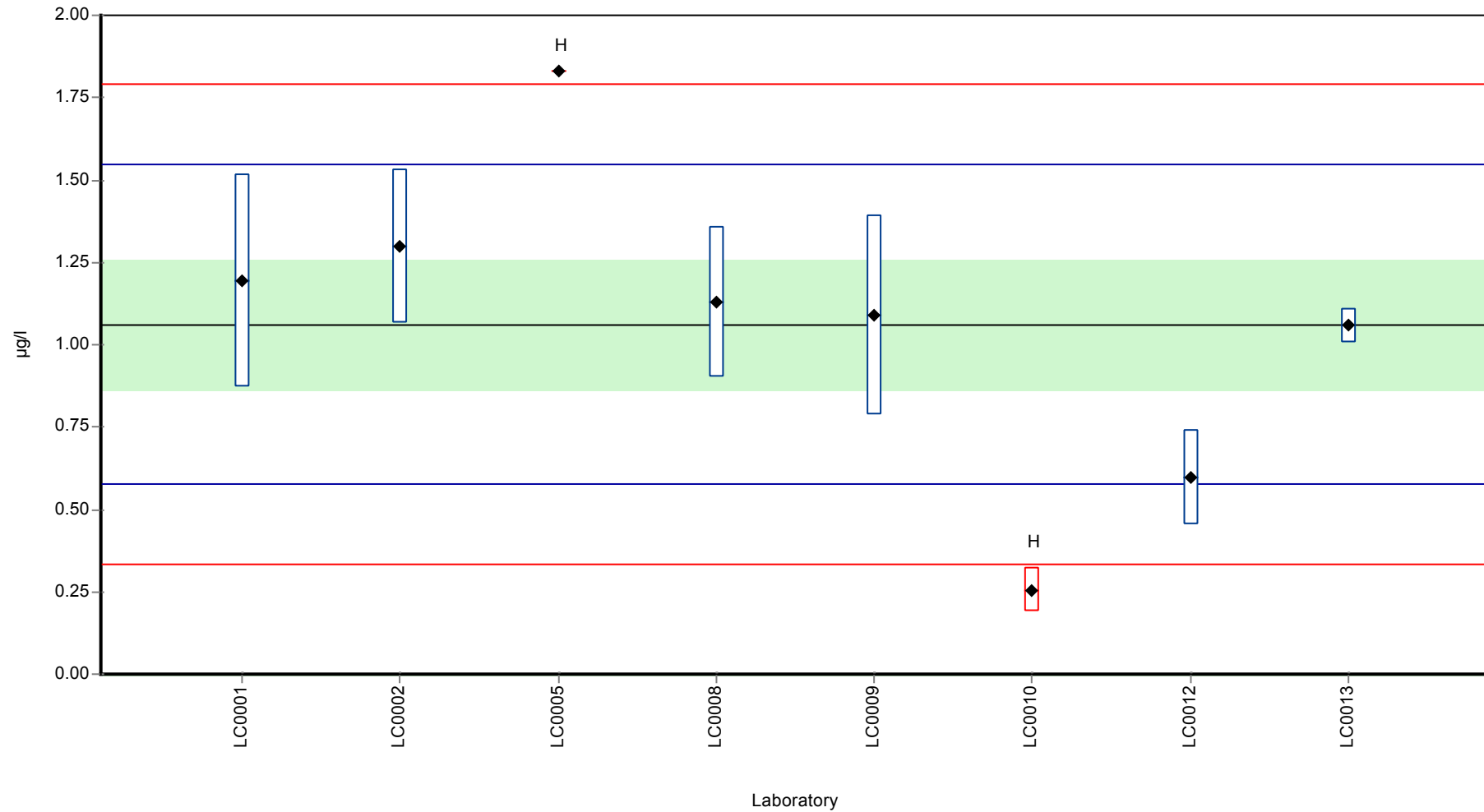
	all results	without outliers	Unit
Mean ± CI (99%)	1.06 ± 0.497	1.06 ± 0.297	µg/l
Minimum	0.256	0.599	µg/l
Maximum	1.83	1.3	µg/l
Standard deviation	0.469	0.243	µg/l
rel. Standard deviation	44.3	22.9	%
n	8	6	-

Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Amidotrizoic acid

Graphical presentation of results

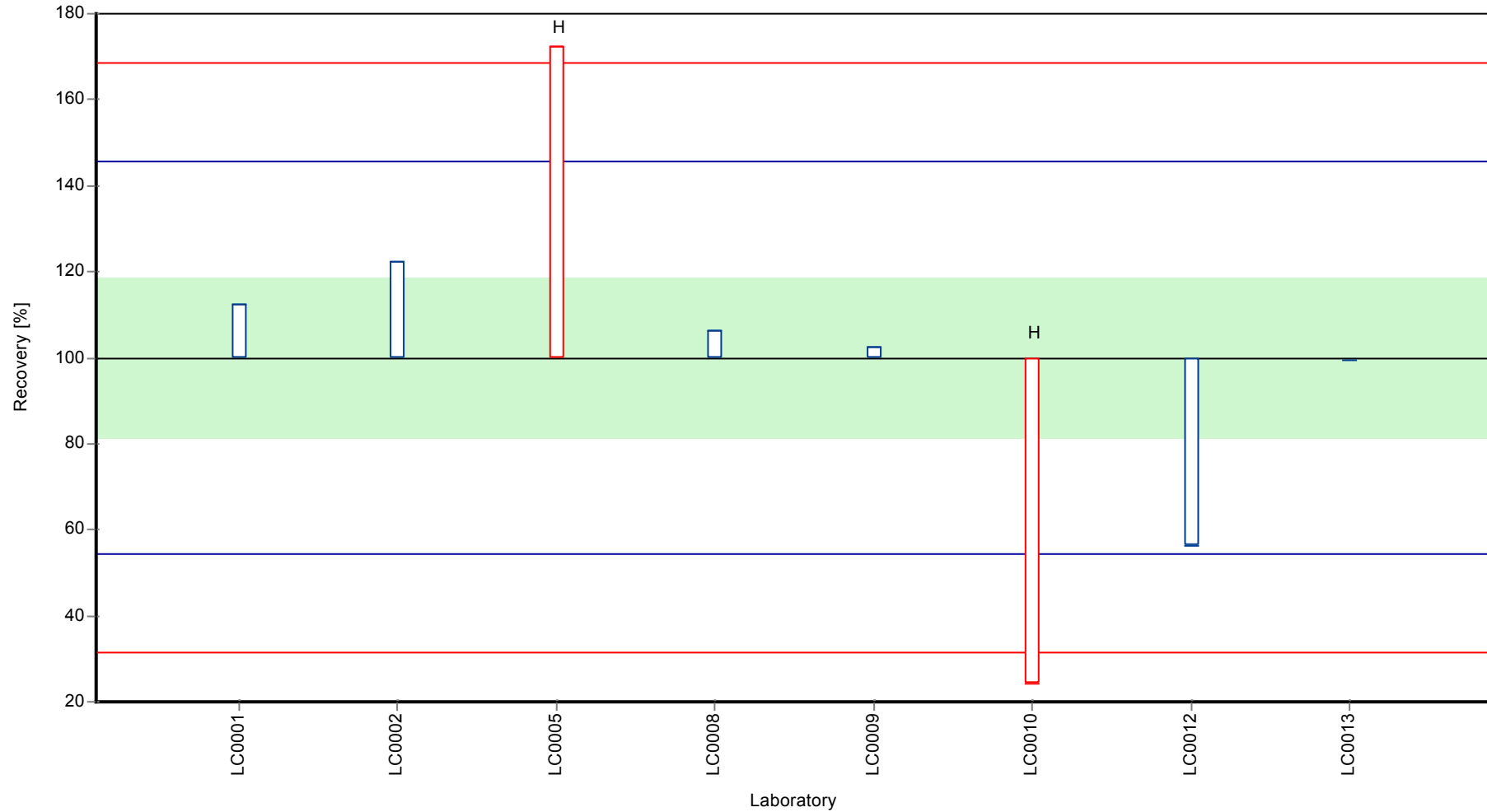
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Amidotrizoic acid

**Recovery rate**

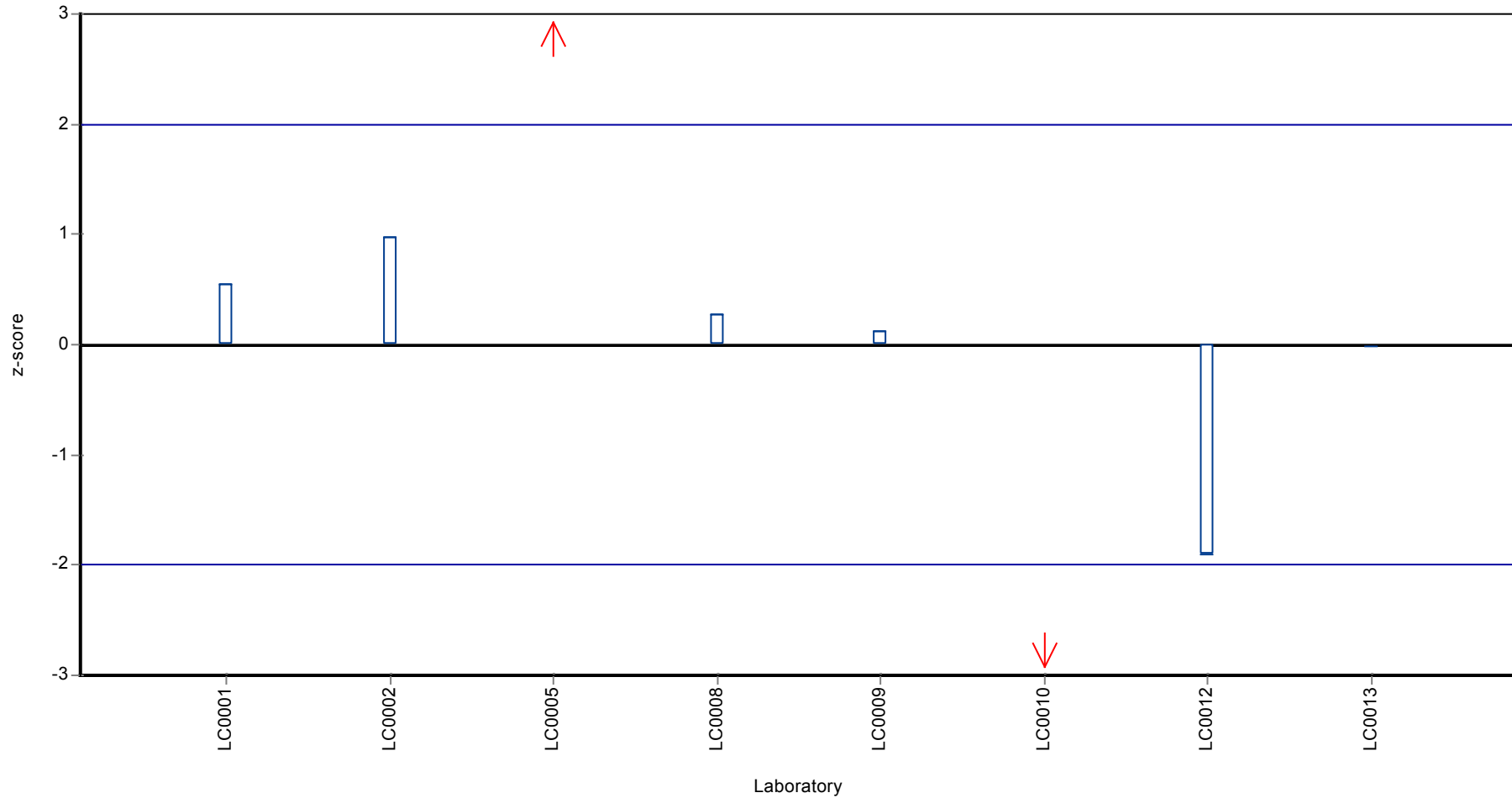




Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Amidotrizoic acid

**Z-score**



## Parameter oriented report

### AZ5 A

#### Atenolol

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.002 - 0.0026
Control test value ± U	<0.025 (NG)

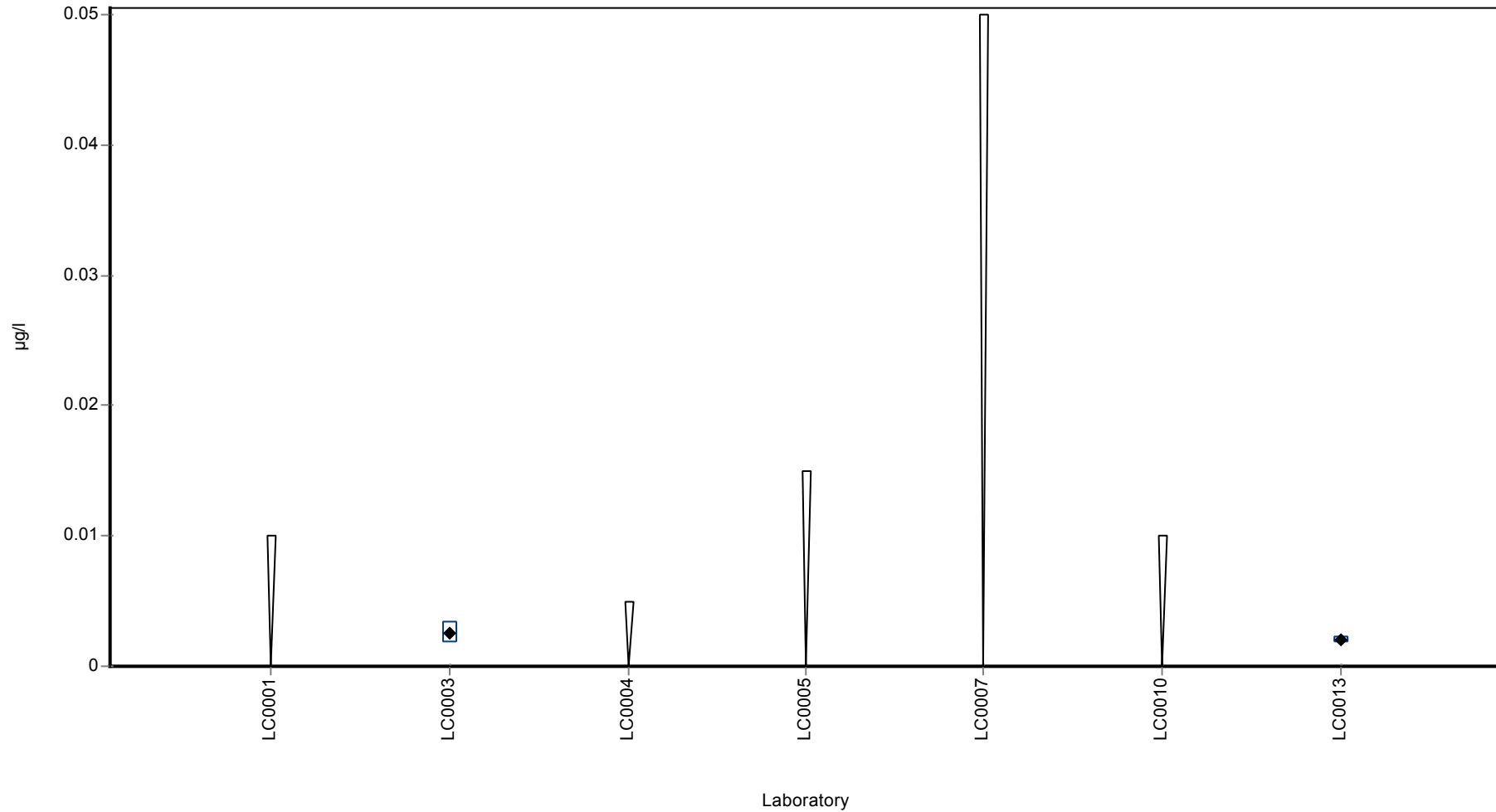
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0.01 (LOQ)	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0026	0.0008	-	-	
LC0004	< 0.005 (LOQ)	-	-	-	
LC0005	< 0.015 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	< 0.05 (LOQ)	-	-	-	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	< 0.01 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.002	0.00026	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.0023 ± 0.0009	-	µg/l
Minimum	0.002	0.002	µg/l
Maximum	0.0026	0.0026	µg/l
Standard deviation	0.000424	-	µg/l
rel. Standard deviation	18.4	-	%
n	2	2	-

Graphical presentation of results

Results



## Parameter oriented report

### AZ5 B

#### Atenolol

Unit	µg/l
Mean ± CI (99%)	0.537 ± 0.153
Minimum - Maximum	0.292 - 0.738
Control test value ± U	0.528 ± 0.0791

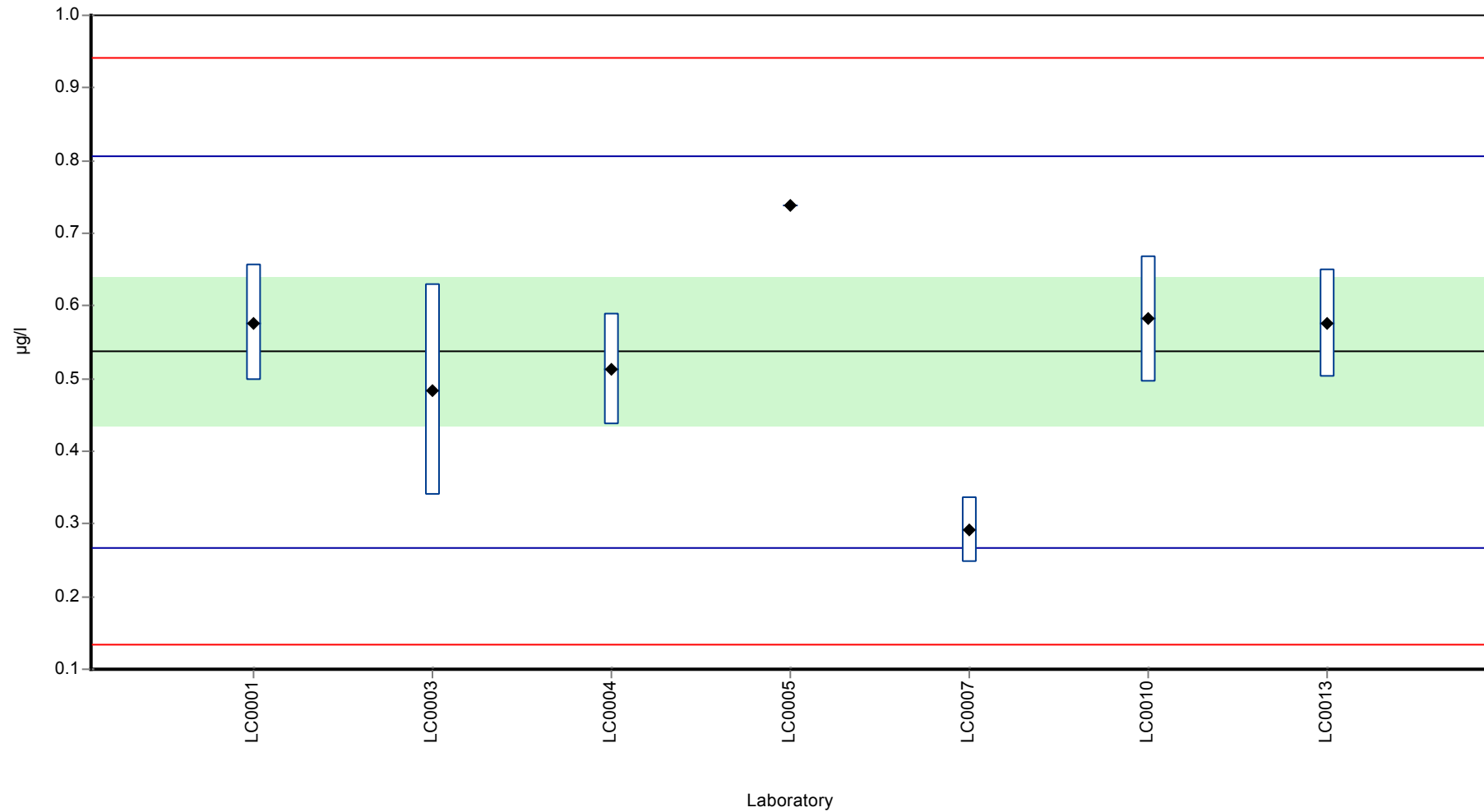
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.577	0.081	107	0.29	
LC0002	-	-	-	-	
LC0003	0.484	0.145	90.1	-0.4	
LC0004	0.512	0.0768	95.3	-0.19	
LC0005	0.738	-	137	1.49	
LC0006	-	-	-	-	
LC0007	0.292	0.045	54.4	-1.82	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	0.5817	0.0873	108	0.33	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.576	0.07488	107	0.29	
LC0014	-	-	-	-	

#### Characteristics of parameter

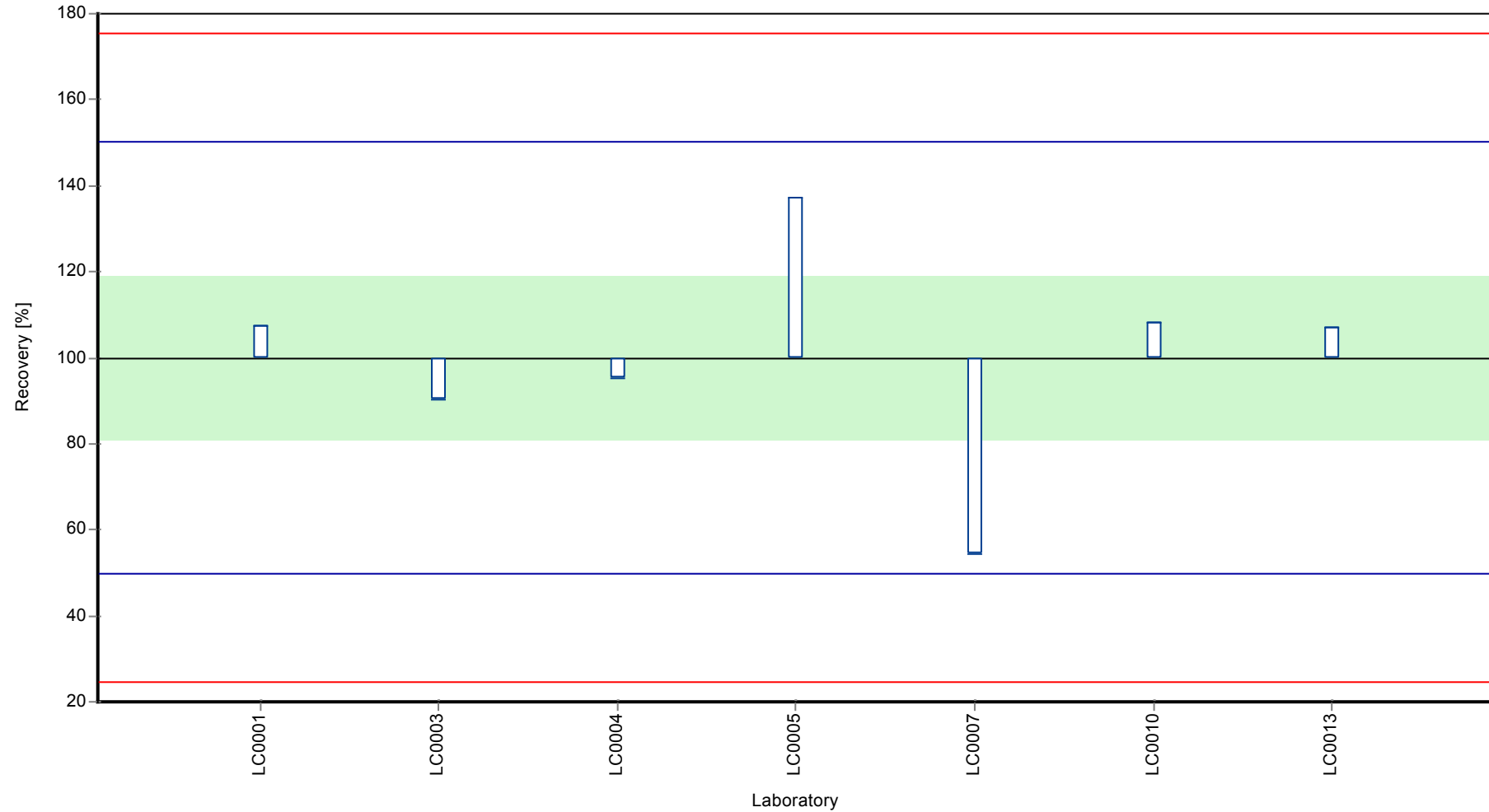
	all results	without outliers	Unit
Mean ± CI (99%)	0.537 ± 0.153	0.537 ± 0.153	µg/l
Minimum	0.292	0.292	µg/l
Maximum	0.738	0.738	µg/l
Standard deviation	0.135	0.135	µg/l
rel. Standard deviation	25.1	25.1	%
n	7	7	-

Graphical presentation of results

Results



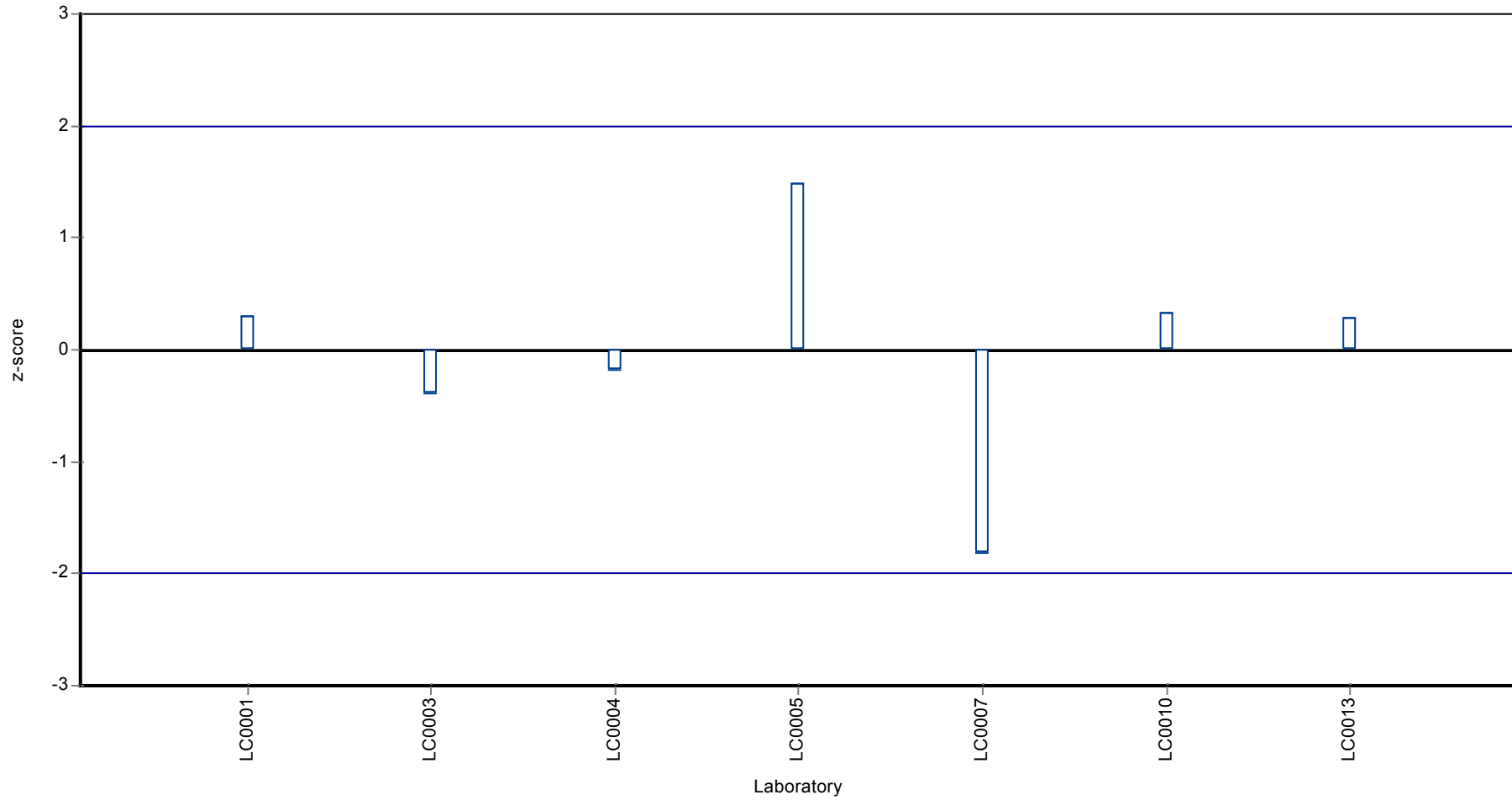
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Atenolol

**Z-score**



## Parameter oriented report

### AZ5 A

#### Benzotriazole

Unit	µg/l
Mean ± CI (99%)	0.26 ± 0.0192
Minimum - Maximum	0.24 - 0.3
Control test value ± U	0.229 ± 0.0344

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.254	0.033	97.8	-0.32	
LC0002	0.248	0.062	95.5	-0.65	
LC0003	0.254	0.089	97.8	-0.32	
LC0004	0.3	0.045	115	2.22	
LC0005	0.317	-	122	3.16	H
LC0006	0.24	0.048	92.4	-1.1	
LC0007	0.189	0.011	72.7	-3.92	H
LC0008	0.254	0.051	97.8	-0.32	
LC0009	0.264	0.0528	102	0.23	
LC0010	0.2645	0.037	102	0.26	
LC0011	0.197	0.03	75.8	-3.47	H
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

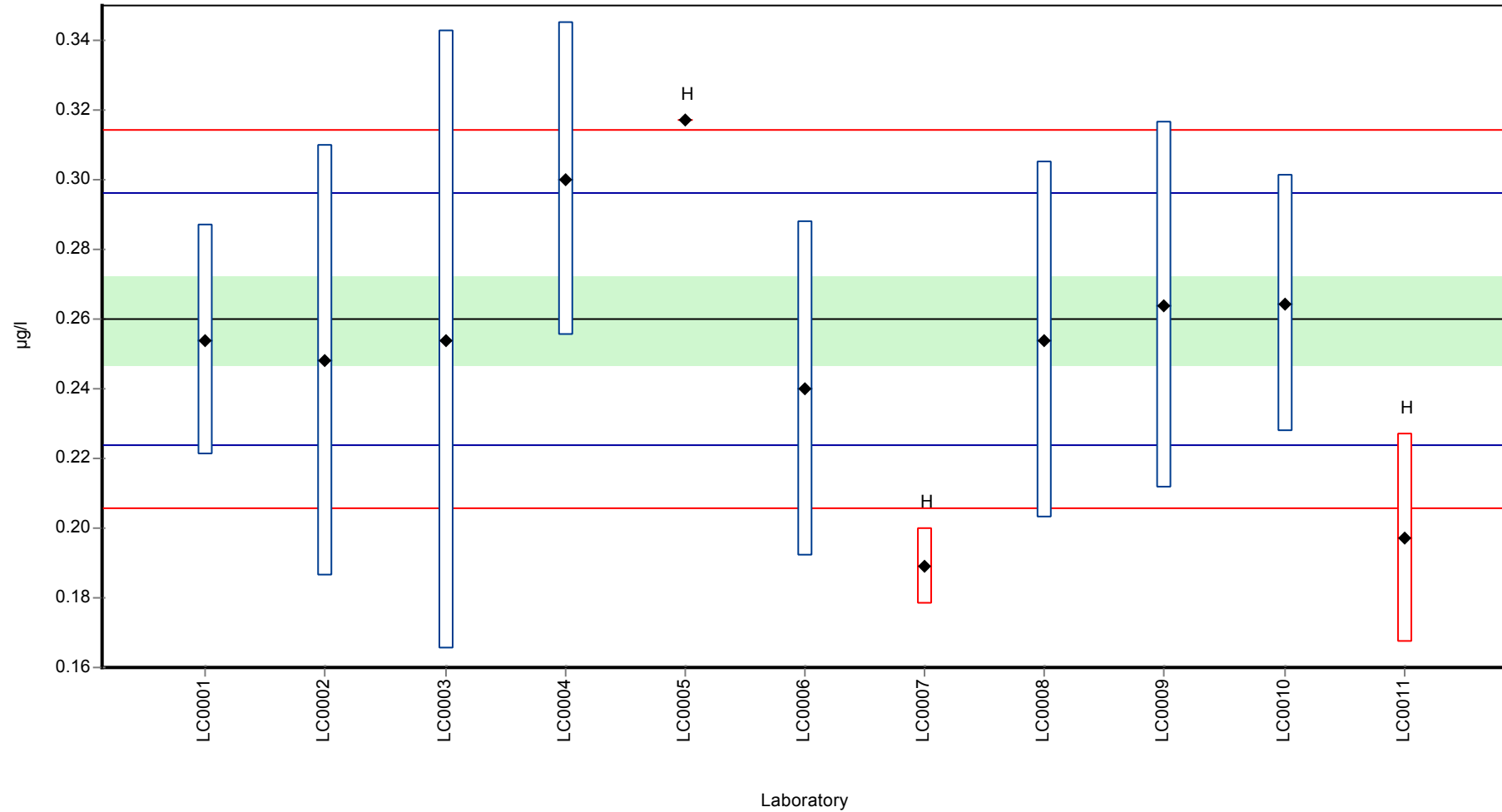
	all results	without outliers	Unit
Mean ± CI (99%)	0.253 ± 0.0338	0.26 ± 0.0192	µg/l
Minimum	0.189	0.24	µg/l
Maximum	0.317	0.3	µg/l
Standard deviation	0.0374	0.0181	µg/l
rel. Standard deviation	14.8	6.96	%
n	11	8	-



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Benzotriazole

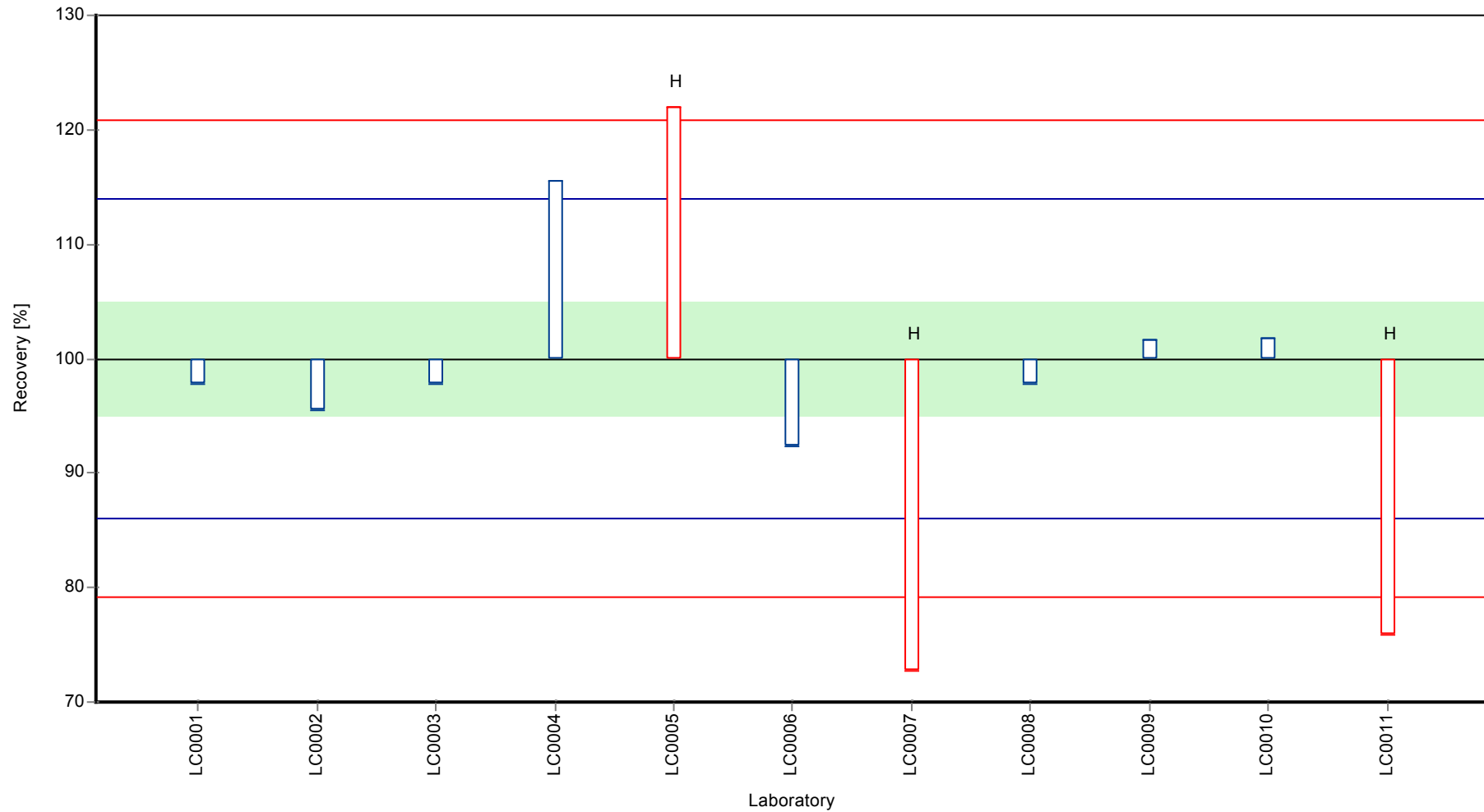
**Graphical presentation of results**  
**Results**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Benzotriazole

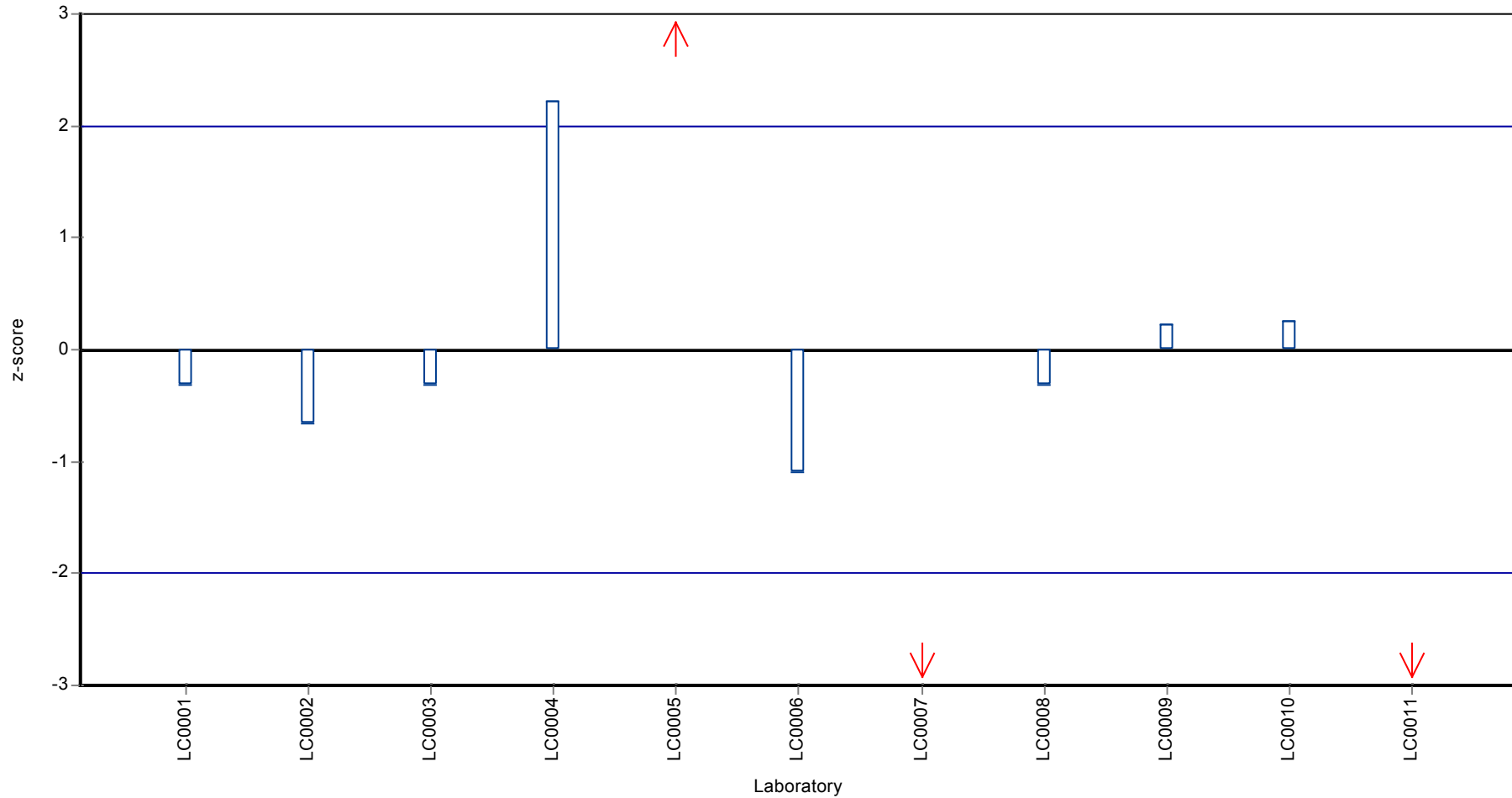
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Benzotriazole

**Z-score**



## Parameter oriented report

### AZ5 B

#### Benzotriazole

Unit	µg/l
Mean ± CI (99%)	8.02 ± 1.13
Minimum - Maximum	6.86 - 10.2
Control test value ± U	7.61 ± 1.14

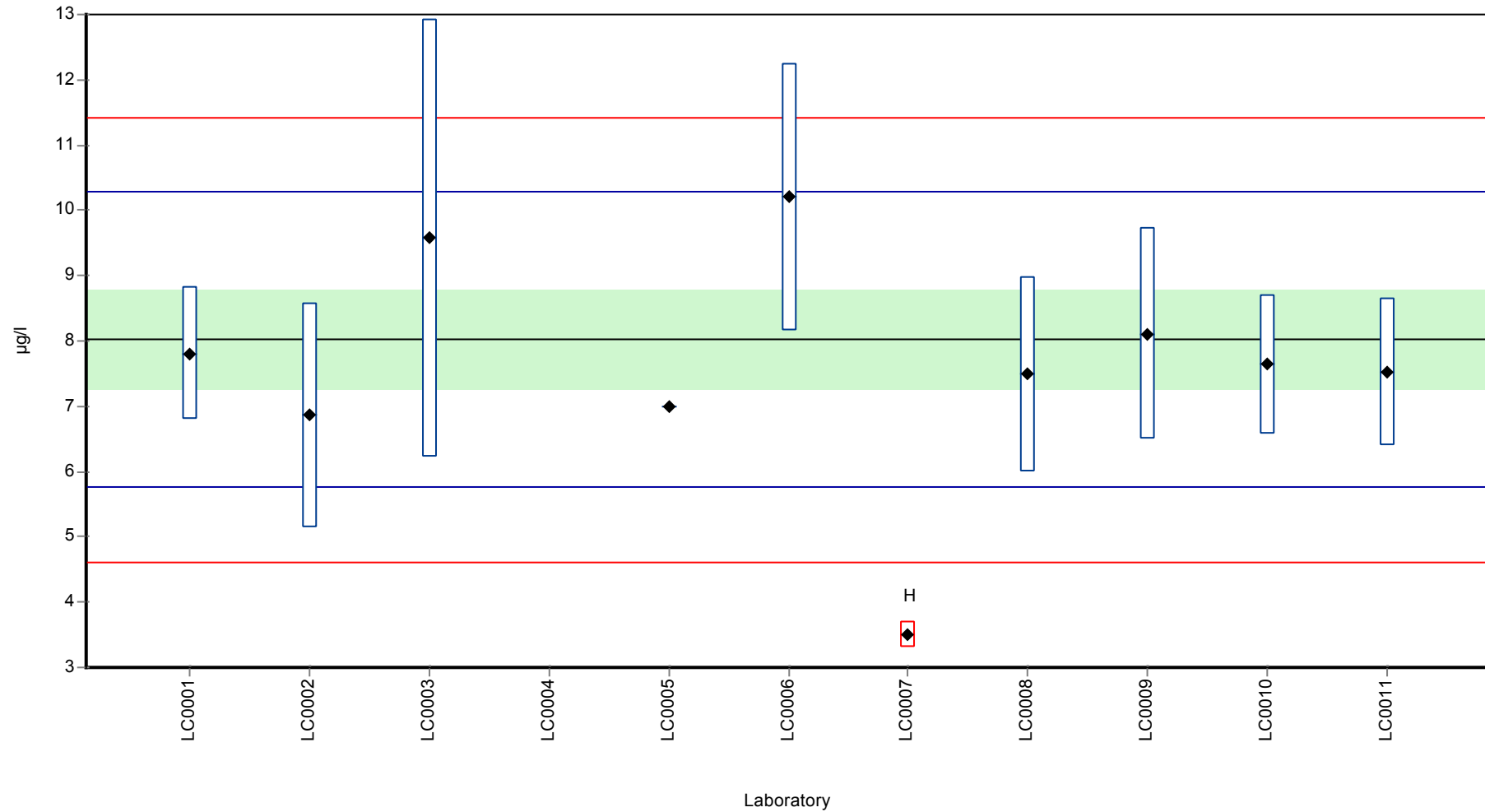
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	7.807	1.015	97.3	-0.19	
LC0002	6.86	1.715	85.5	-1.02	
LC0003	9.573	3.351	119	1.37	
LC0004	< 0.005 (LOQ)	-	-	-	
LC0005	6.985	-	87.1	-0.91	
LC0006	10.2	2.04	127	1.92	
LC0007	3.502	0.196	43.7	-3.98	H
LC0008	7.49	1.5	93.4	-0.47	
LC0009	8.11	1.62	101	0.08	
LC0010	7.639	1.0695	95.2	-0.34	
LC0011	7.527	1.13	93.8	-0.43	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	7.57 ± 1.69	8.02 ± 1.13	µg/l
Minimum	3.5	6.86	µg/l
Maximum	10.2	10.2	µg/l
Standard deviation	1.79	1.13	µg/l
rel. Standard deviation	23.6	14.1	%
n	10	9	-

Graphical presentation of results

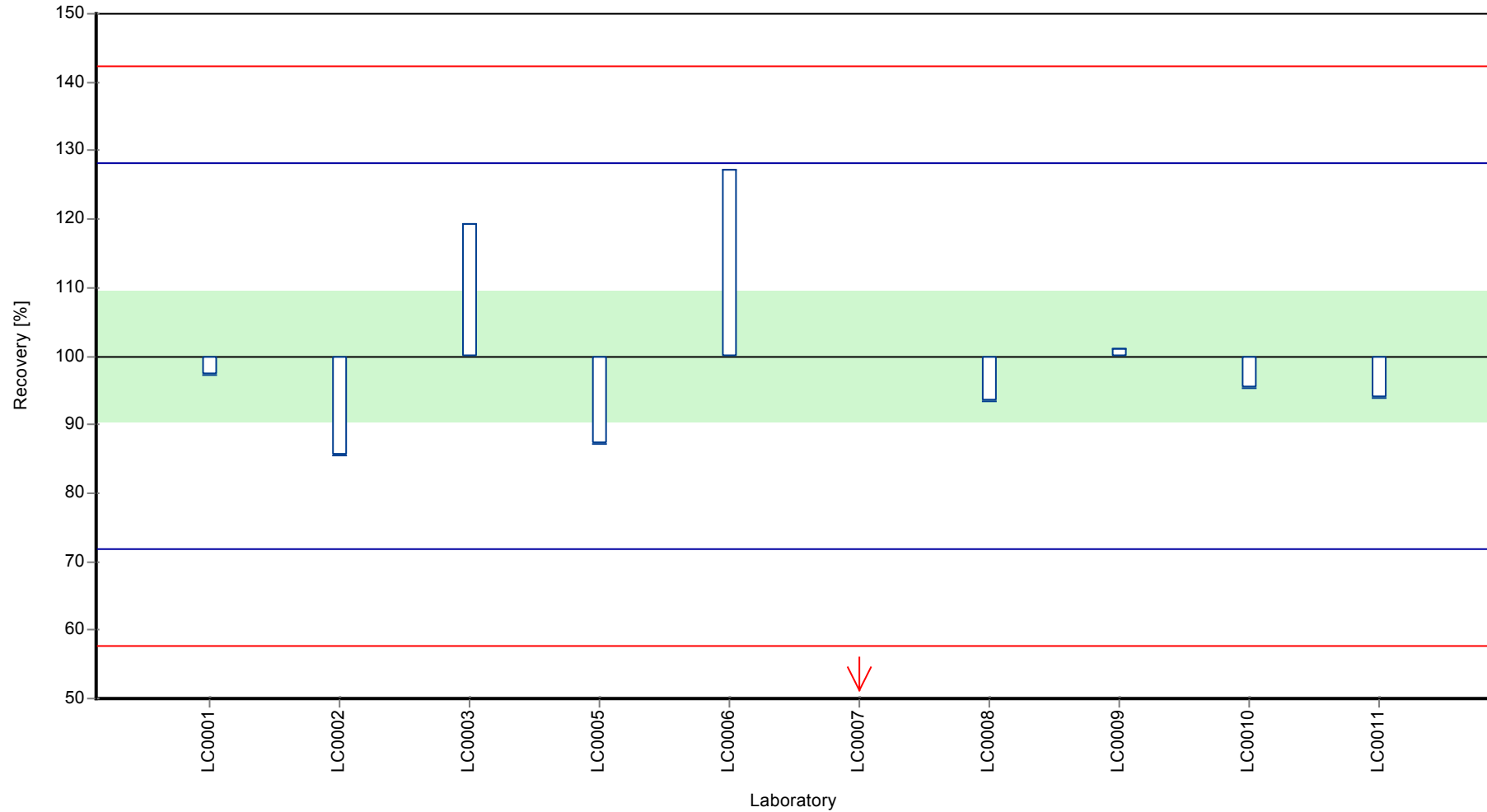
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Benzotriazole

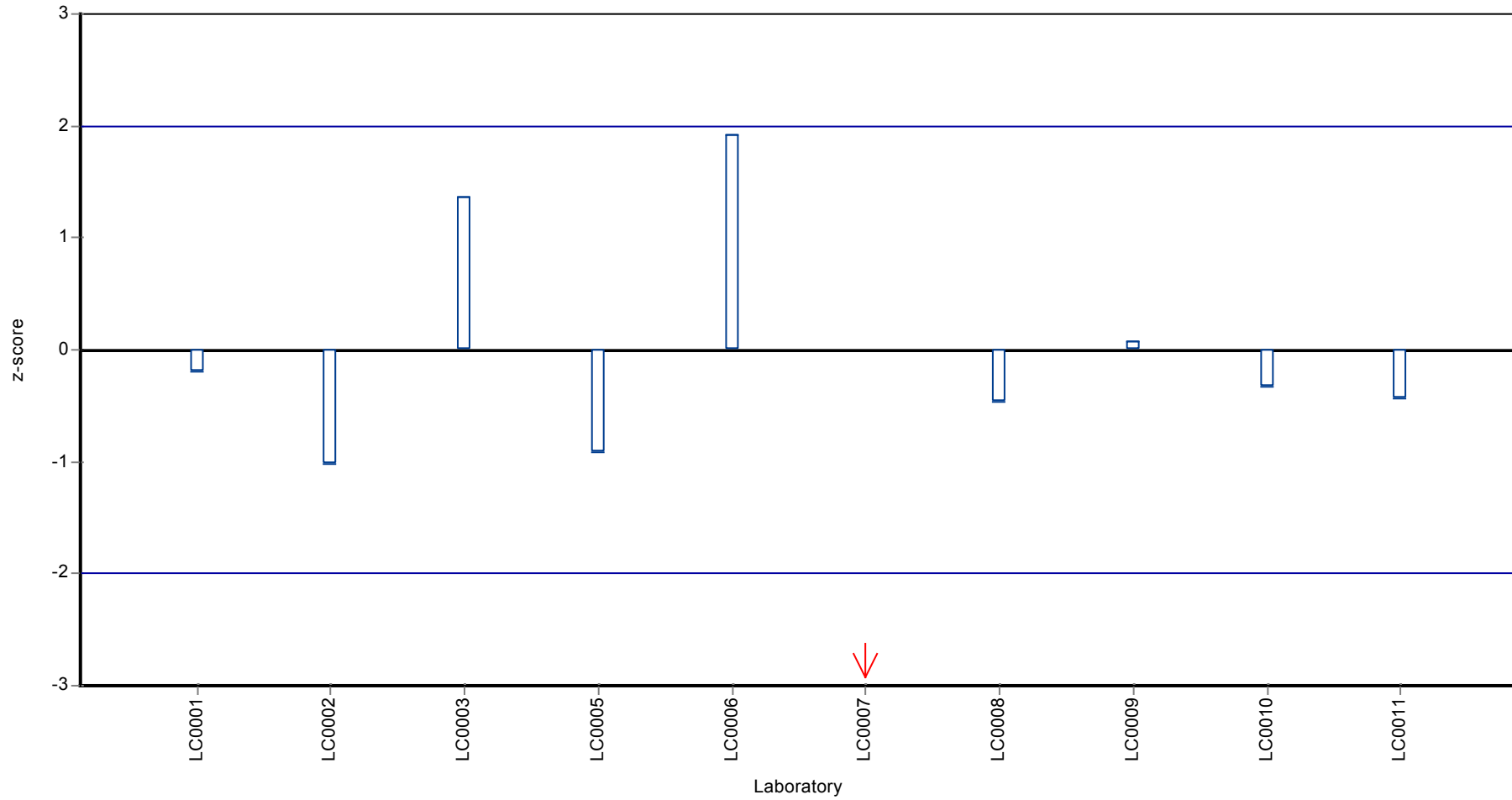
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Benzotriazole

**Z-score**



## Parameter oriented report

### AZ5 A

#### Bisoprolol

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.09 - 0.276
Control test value ± U	0.0881 ± 0.0132

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.09	0.032	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	0.2758	0.102	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

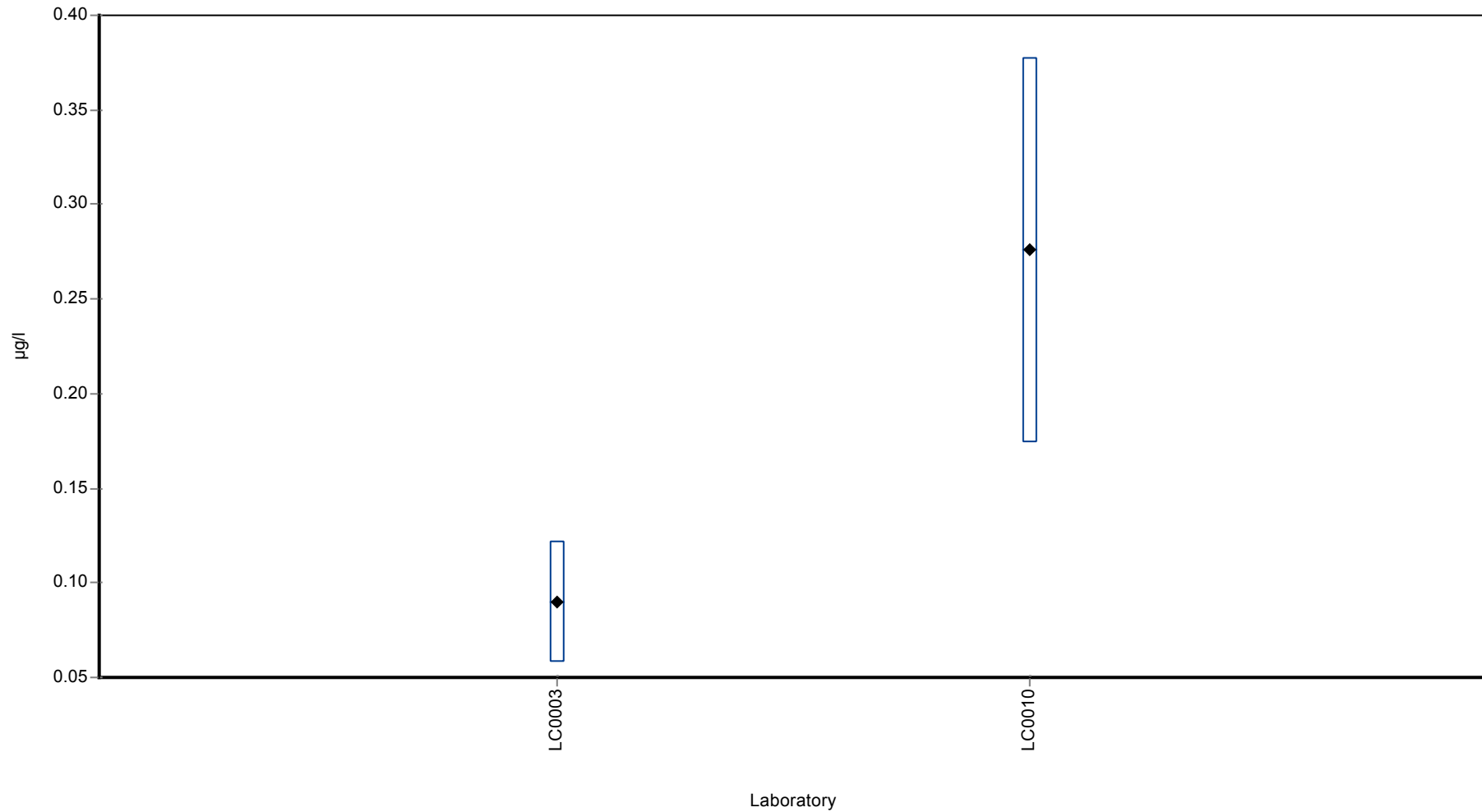
#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.183 ± 0.279	-	µg/l
Minimum	0.09	0.09	µg/l
Maximum	0.276	0.276	µg/l
Standard deviation	0.131	-	µg/l
rel. Standard deviation	71.8	-	%
n	2	2	-



Graphical presentation of results

Results



## Parameter oriented report

### AZ5 B

#### Bisoprolol

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.0971 - 0.352
Control test value ± U	0.299 ± 0.0448

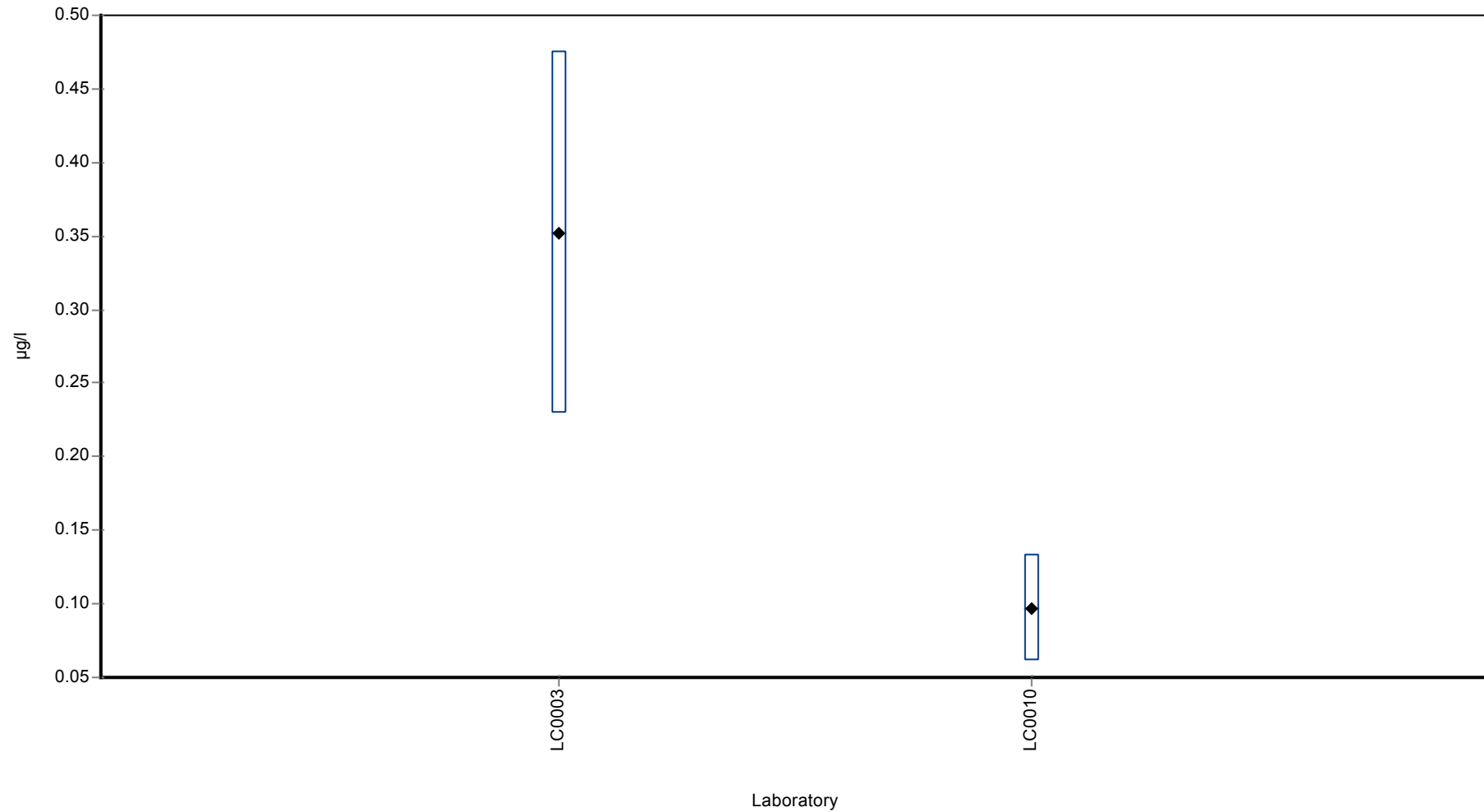
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.352	0.123	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	0.0971	0.0359	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.225 ± 0.382	-	µg/l
Minimum	0.0971	0.0971	µg/l
Maximum	0.352	0.352	µg/l
Standard deviation	0.18	-	µg/l
rel. Standard deviation	80.3	-	%
n	2	2	-

**Graphical presentation of results**

**Results**



## Parameter oriented report

### AZ5 A

#### Carbamazepine

Unit	µg/l
Mean ± CI (99%)	0.0897 ± 0.00798
Minimum - Maximum	0.076 - 0.099
Control test value ± U	0.0979 ± 0.0147

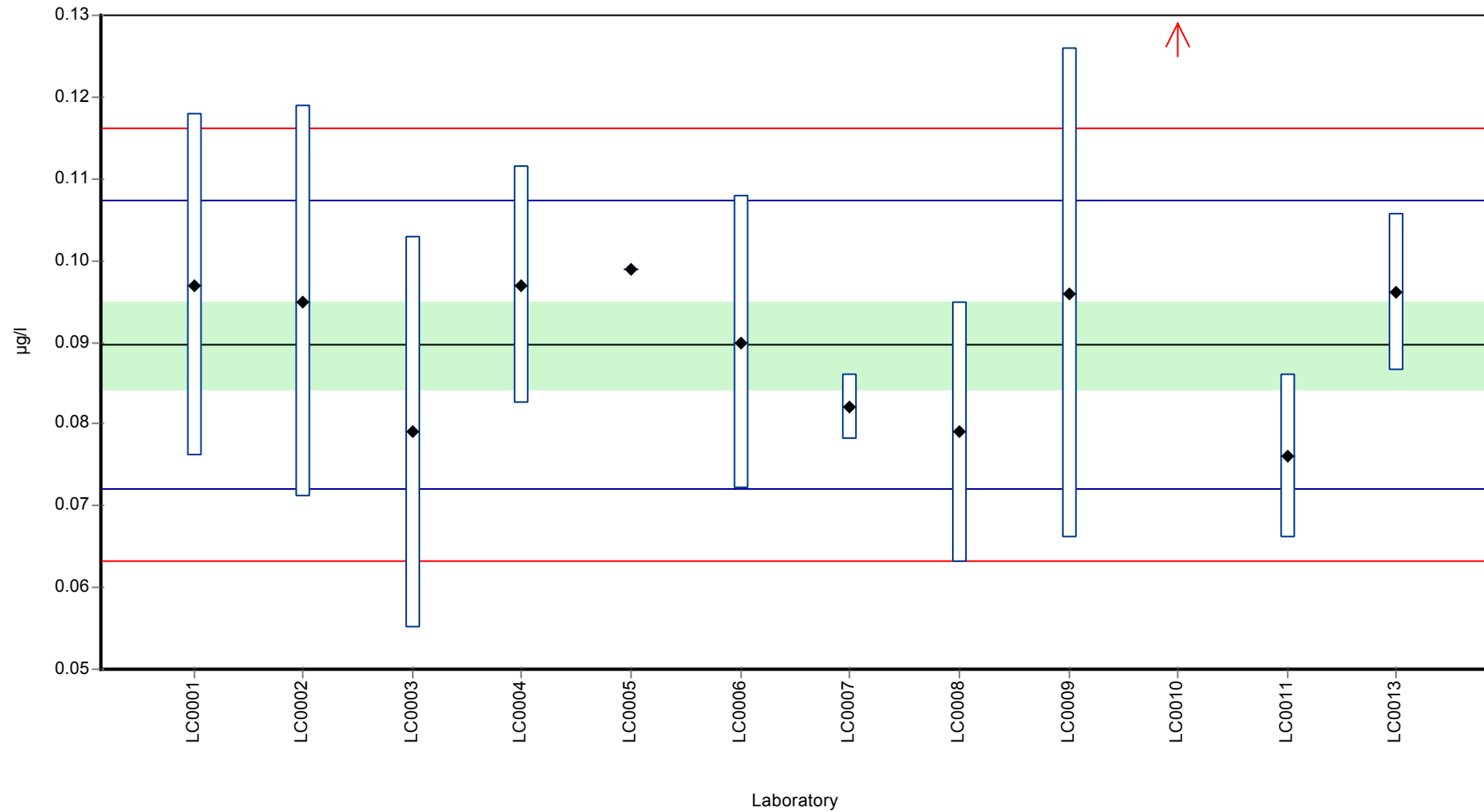
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.097	0.021	108	0.83	
LC0002	0.095	0.024	106	0.61	
LC0003	0.079	0.024	88.1	-1.21	
LC0004	0.097	0.0146	108	0.83	
LC0005	0.099	-	110	1.06	
LC0006	0.09	0.018	100	0.04	
LC0007	0.082	0.004	91.5	-0.87	
LC0008	0.079	0.016	88.1	-1.21	
LC0009	0.096	0.03	107	0.72	
LC0010	0.451	0.1308	503	40.9	H
LC0011	0.076	0.01	84.8	-1.55	
LC0012	-	-	-	-	
LC0013	0.0962	0.00962	107	0.74	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.12 ± 0.0906	0.0897 ± 0.00798	µg/l
Minimum	0.076	0.076	µg/l
Maximum	0.451	0.099	µg/l
Standard deviation	0.105	0.00883	µg/l
rel. Standard deviation	87.4	9.85 %	
n	12	11	-

Graphical presentation of results

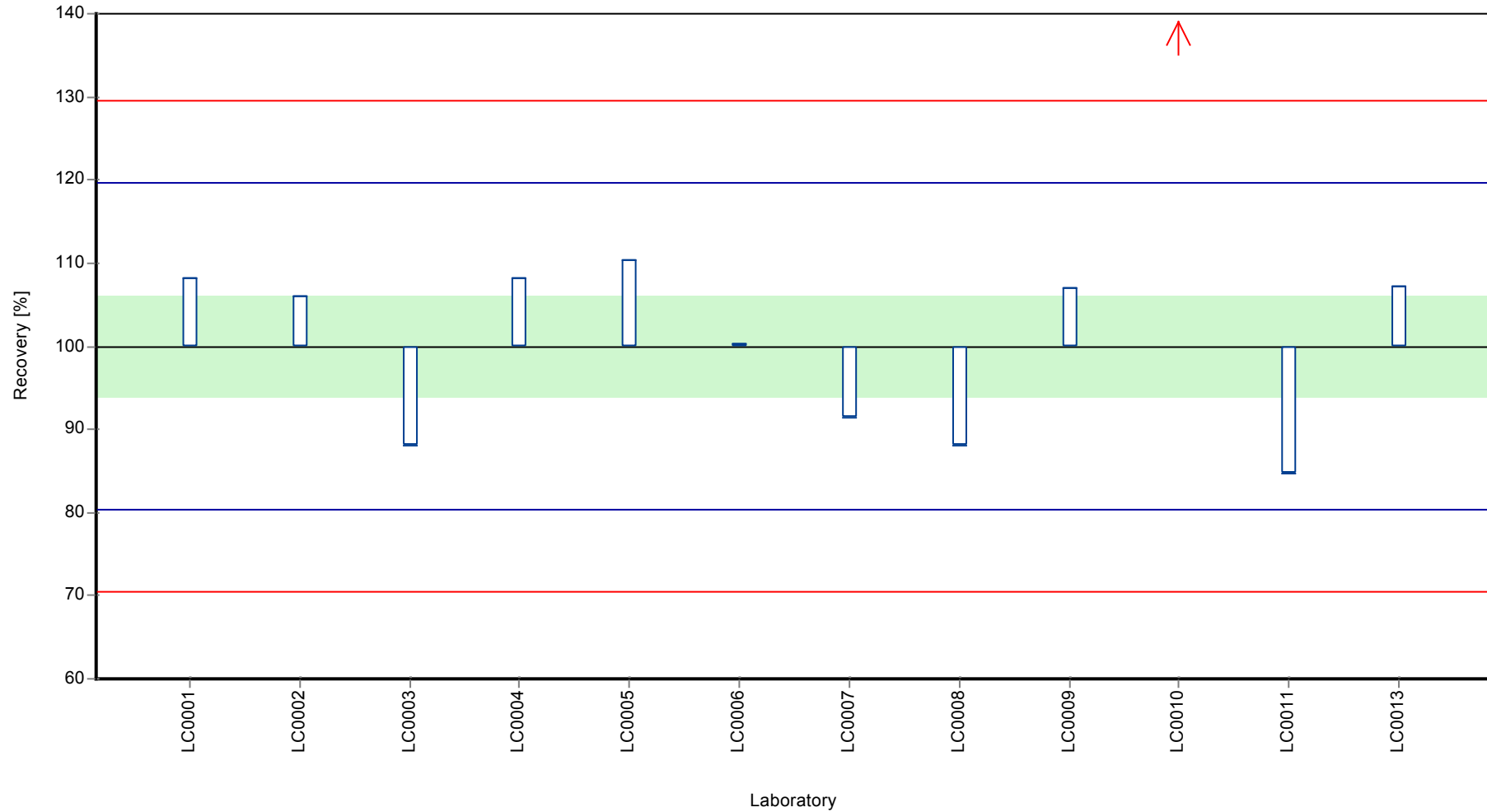
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Carbamazepine

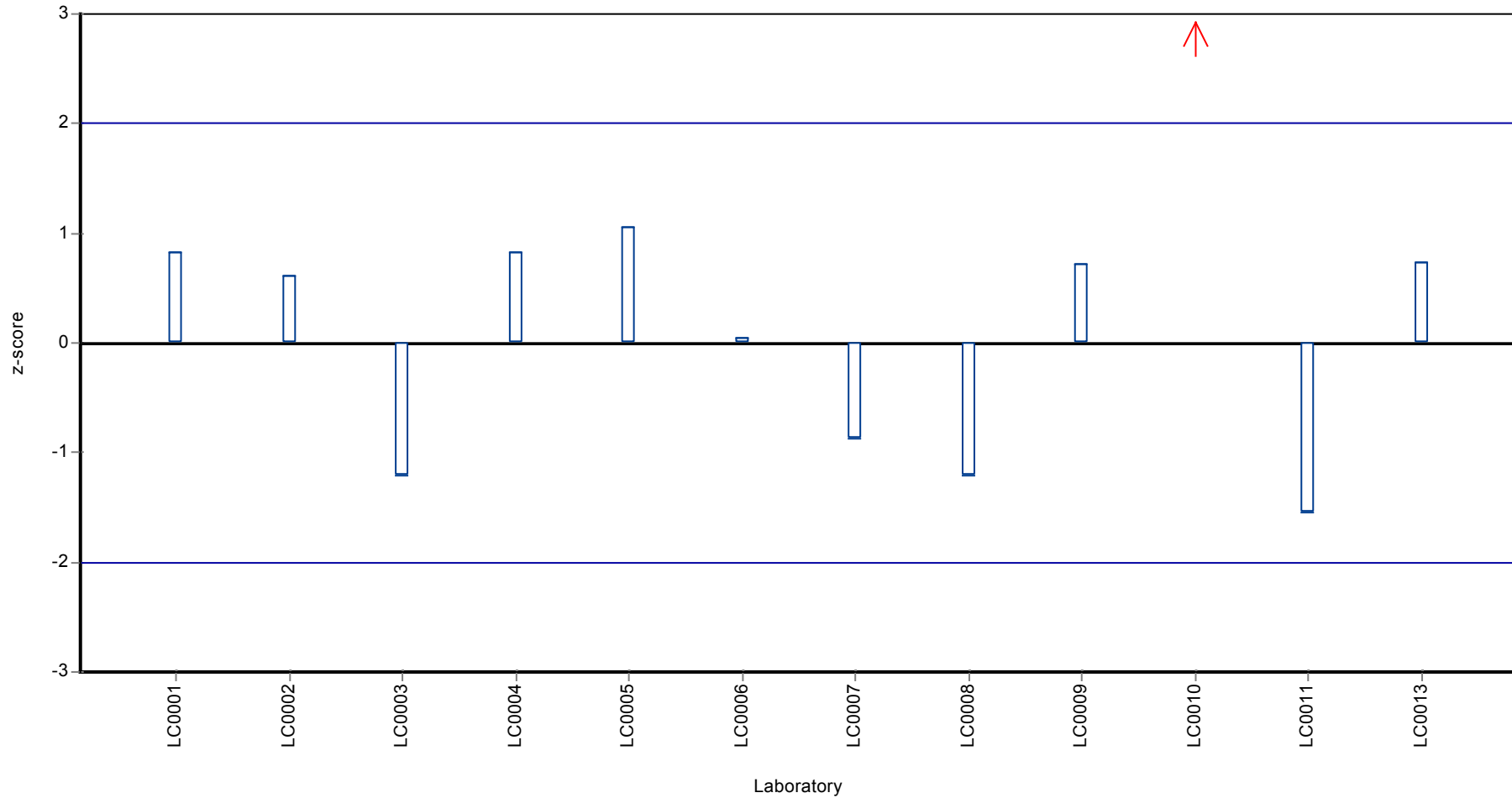
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Carbamazepine

**Z-score**



## Parameter oriented report

### AZ5 B

#### Carbamazepine

Unit	µg/l
Mean ± CI (99%)	0.432 ± 0.0683
Minimum - Maximum	0.292 - 0.583
Control test value ± U	0.485 ± 0.0728

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.488	0.107	113	0.74	
LC0002	0.382	0.096	88.5	-0.66	
LC0003	0.422	0.127	97.7	-0.13	
LC0004	0.583	0.0875	135	2	
LC0005	0.481	-	111	0.65	
LC0006	0.43	0.09	99.6	-0.02	
LC0007	0.292	0.026	67.6	-1.85	
LC0008	0.407	0.081	94.3	-0.33	
LC0009	0.434	0.136	101	0.03	
LC0010	0.0928	0.0269	21.5	-4.49	H
LC0011	0.364	0.06	84.3	-0.9	
LC0012	-	-	-	-	
LC0013	0.467	0.03269	108	0.47	
LC0014	-	-	-	-	

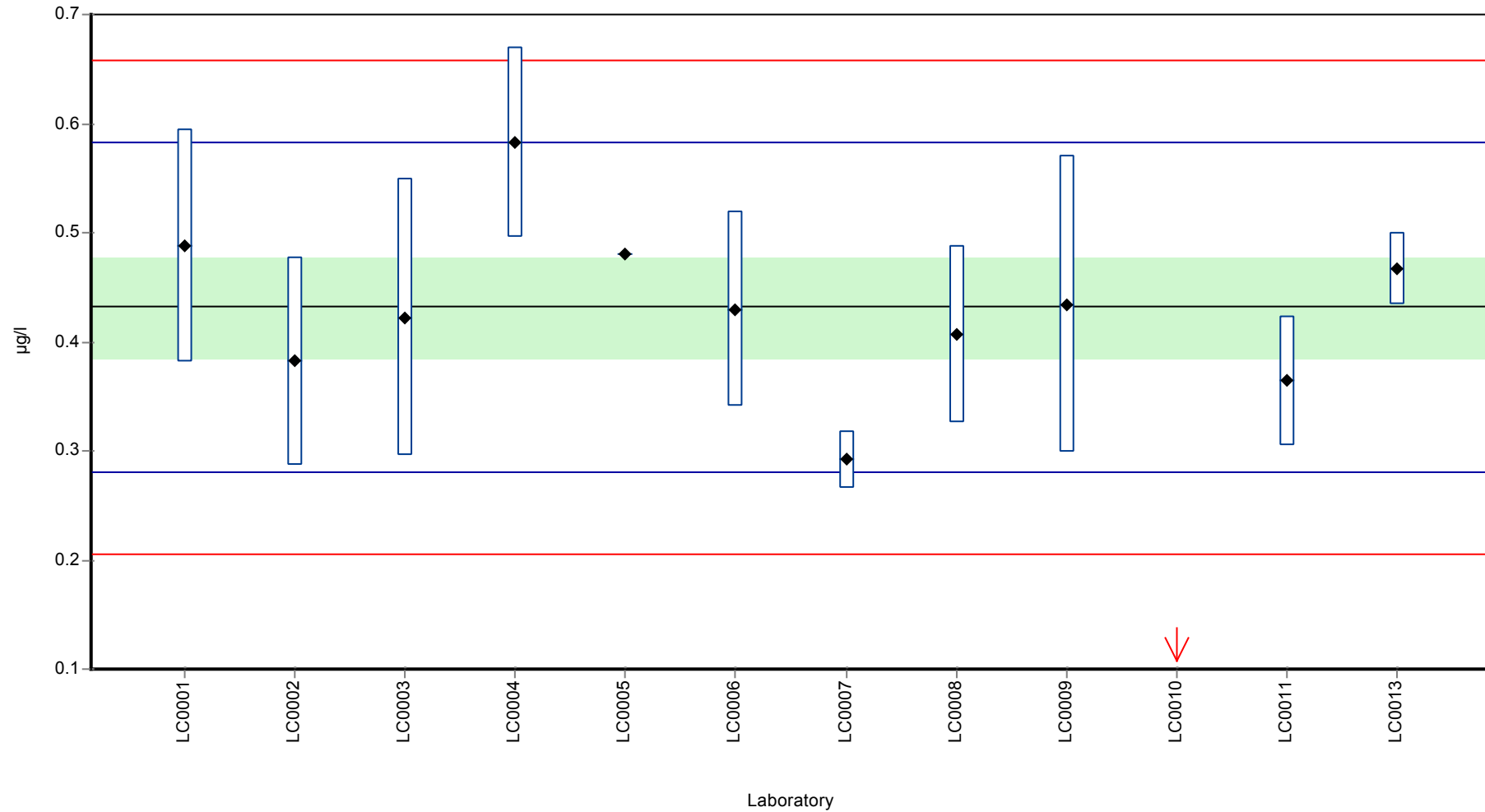
#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.404 ± 0.105	0.432 ± 0.0683	µg/l
Minimum	0.0928	0.292	µg/l
Maximum	0.583	0.583	µg/l
Standard deviation	0.121	0.0755	µg/l
rel. Standard deviation	30.1	17.5	%
n	12	11	-



Graphical presentation of results

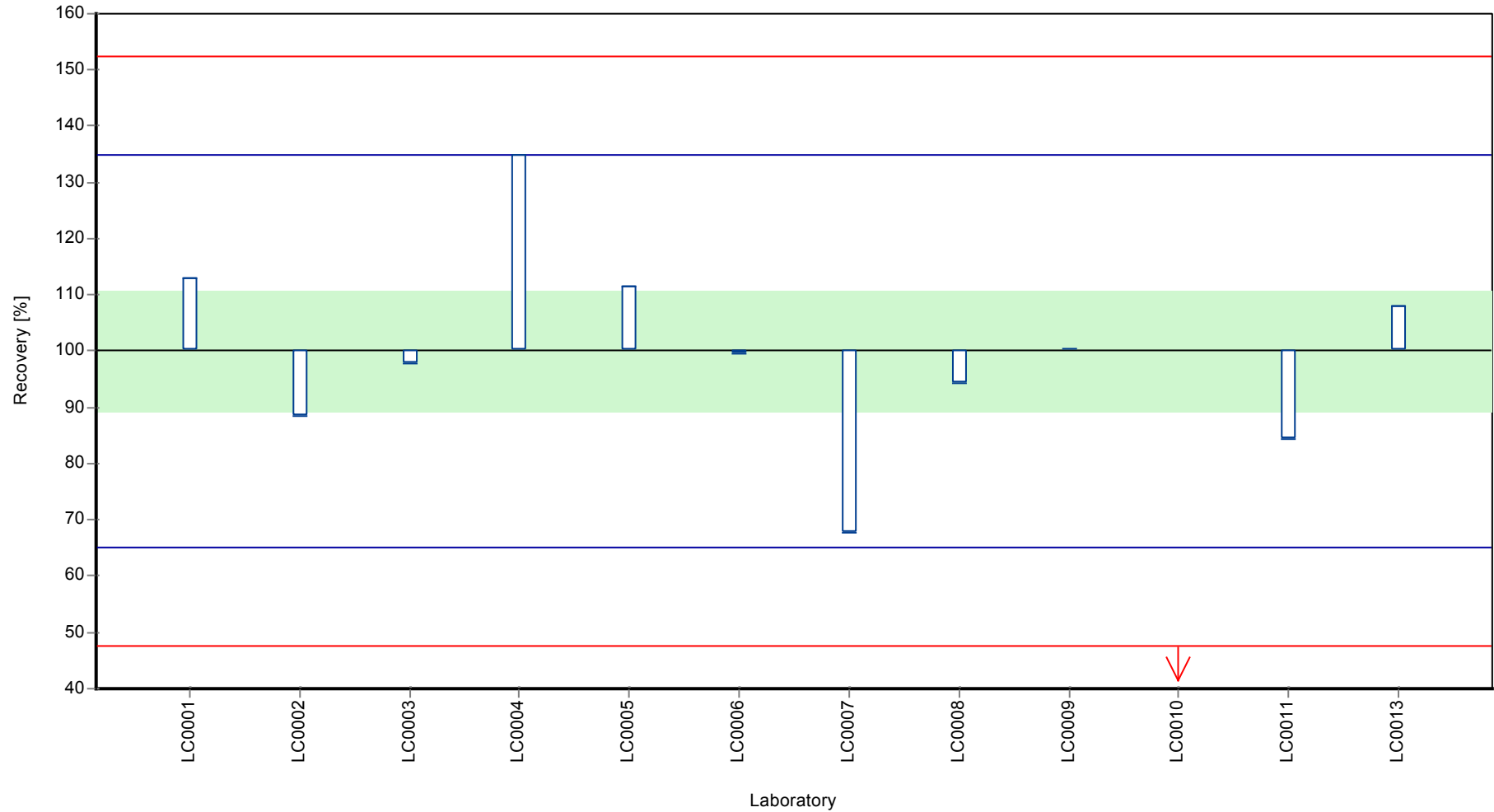
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Carbamazepine

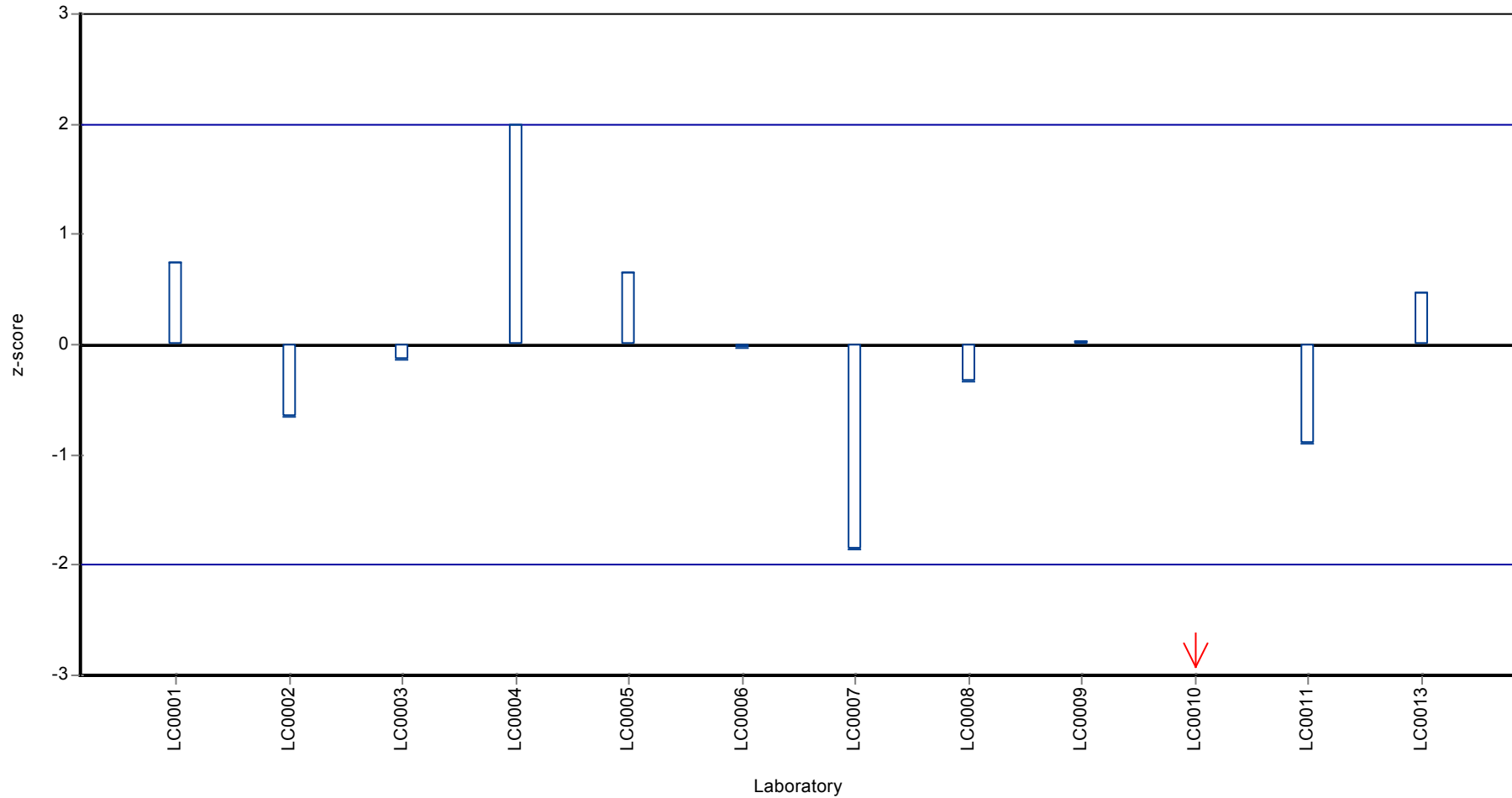
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Carbamazepine

**Z-score**



## Parameter oriented report

### AZ5 A

#### Cyclamate

Unit	µg/l
Mean ± CI (99%)	0.0672 ± 0.0141
Minimum - Maximum	0.0416 - 0.089
Control test value ± U	0.081 ± 0.0122

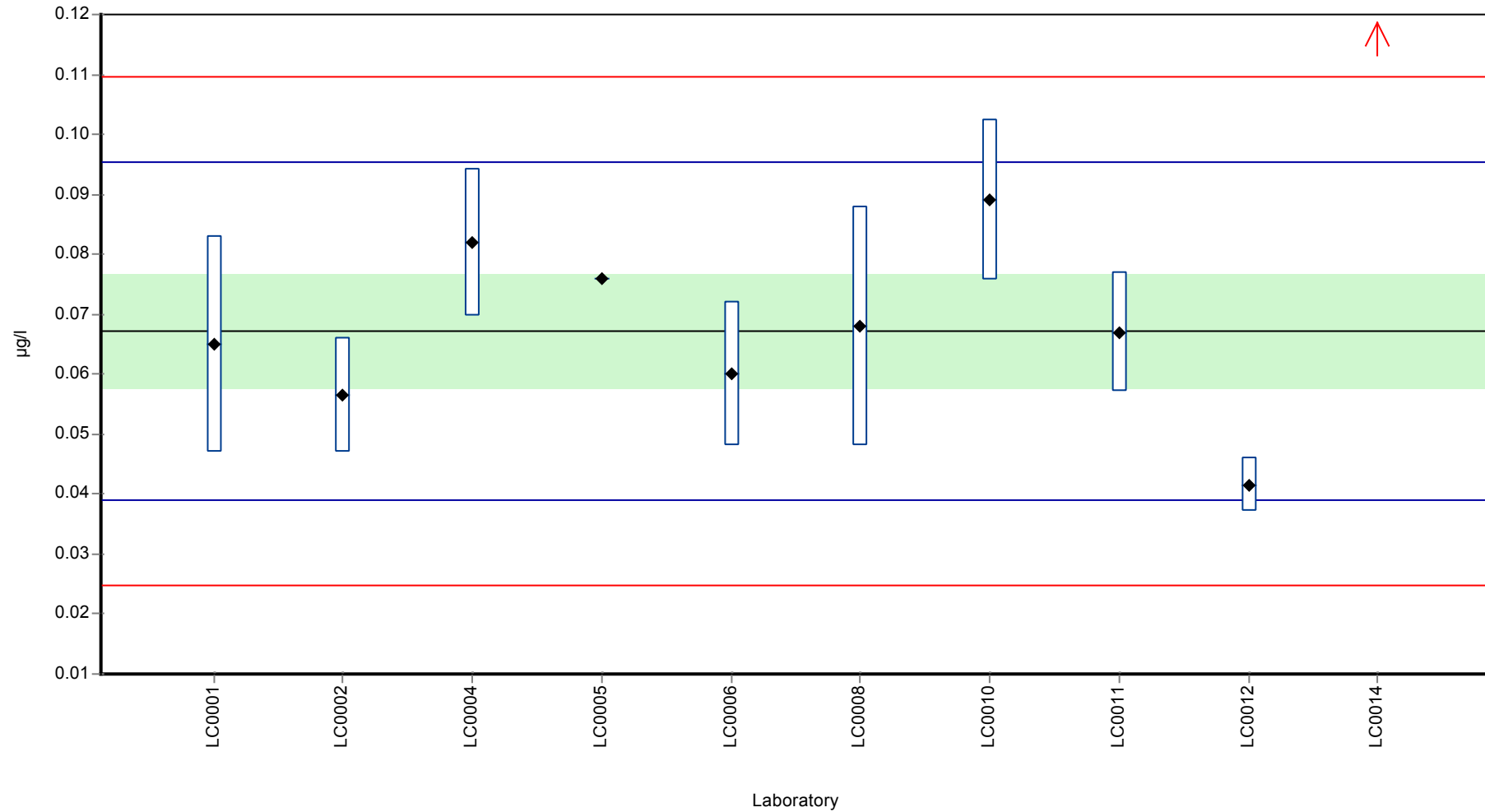
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.065	0.018	96.7	-0.16	
LC0002	0.0566	0.0096	84.2	-0.75	
LC0003	-	-	-	-	
LC0004	0.082	0.0123	122	1.04	
LC0005	0.076	-	113	0.62	
LC0006	0.06	0.012	89.2	-0.51	
LC0007	-	-	-	-	
LC0008	0.068	0.02	101	0.05	
LC0009	-	-	-	-	
LC0010	0.089	0.0134	132	1.54	
LC0011	0.067	0.01	99.6	-0.02	
LC0012	0.0416	0.0045	61.9	-1.82	
LC0013	-	-	-	-	
LC0014	0.151	0.038	225	5.93	H

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.0756 ± 0.0281	0.0672 ± 0.0141	µg/l
Minimum	0.0416	0.0416	µg/l
Maximum	0.151	0.089	µg/l
Standard deviation	0.0296	0.0141	µg/l
rel. Standard deviation	39.2	21	%
n	10	9	-

Graphical presentation of results

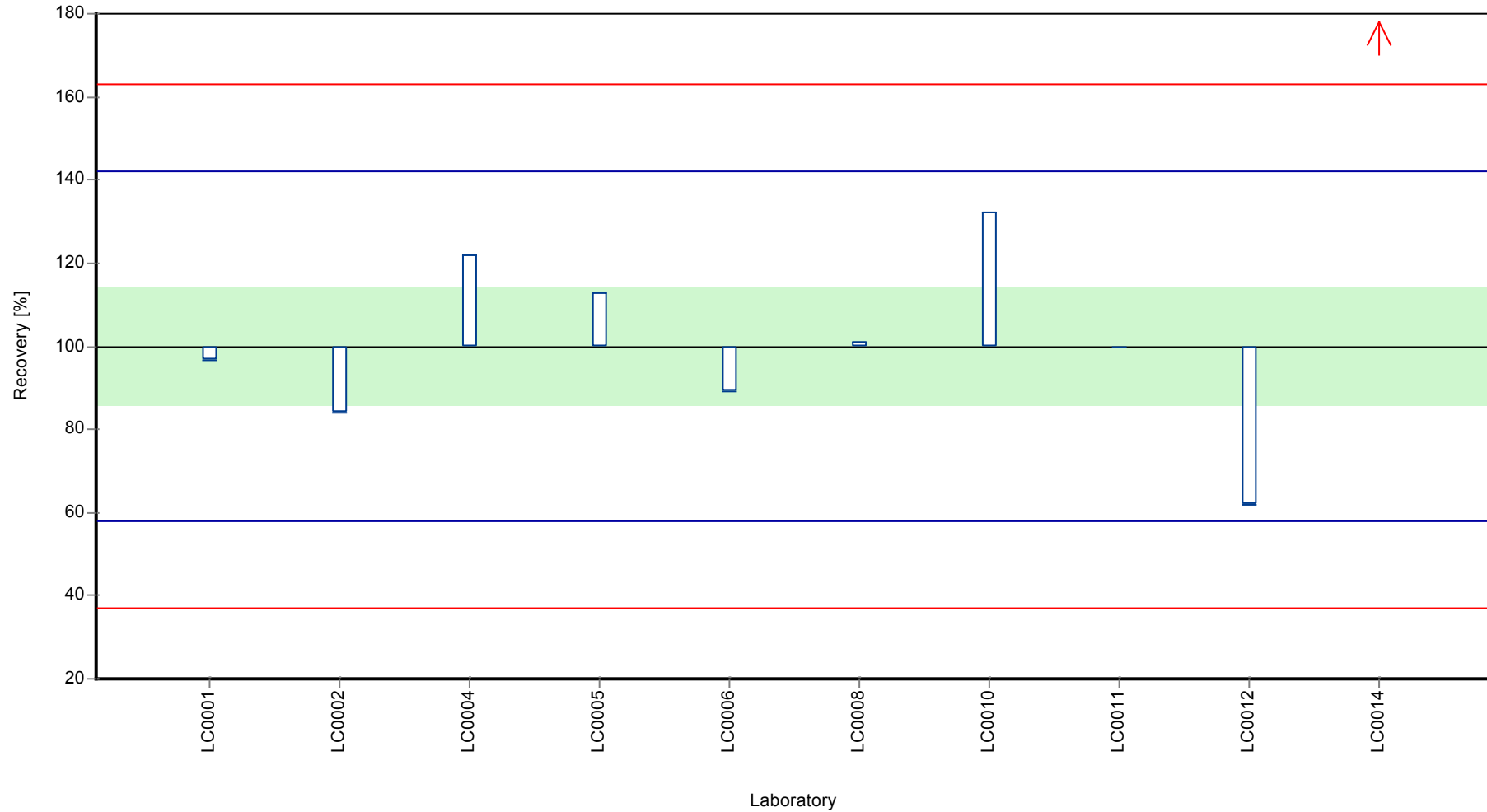
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Cyclamate

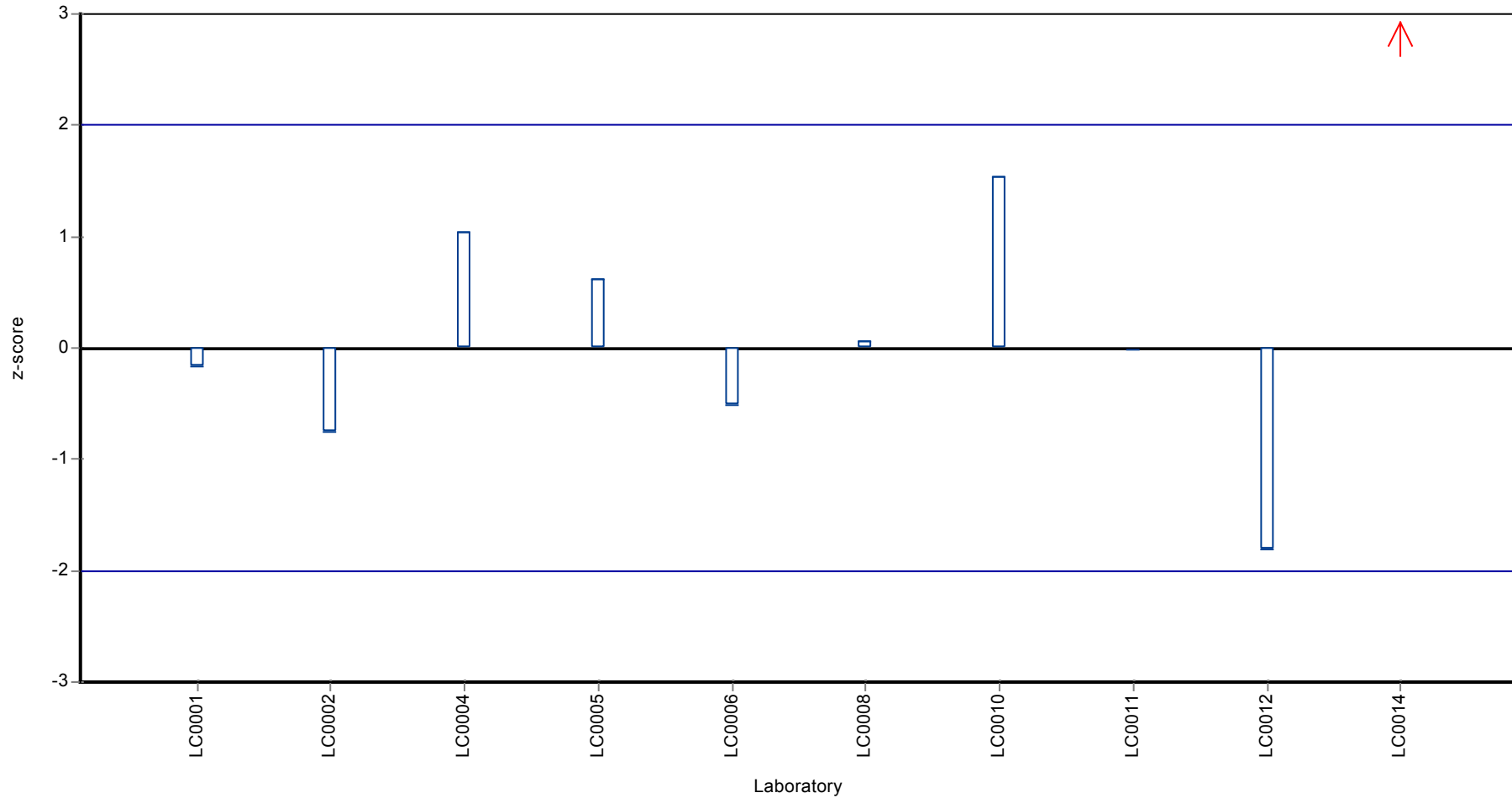
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Cyclamate

**Z-score**



## Parameter oriented report

### AZ5 B

#### Cyclamate

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.0174 - 0.055
Control test value ± U	<0.05 (BG)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0.05 (LOQ)	-	-	-	
LC0002	0.0227	0.0039	-	-	
LC0003	-	-	-	-	
LC0004	0.055	0.00825	-	-	
LC0005	0.03	-	-	-	
LC0006	< 0.1 (LOQ)	-	-	-	
LC0007	-	-	-	-	
LC0008	< 0.1 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	0.0246	0.0037	-	-	
LC0011	0.0174	0.003	-	-	
LC0012	< 0.025 (LOQ)	-	-	-	
LC0013	-	-	-	-	
LC0014	0.069	0.017	-	-	H

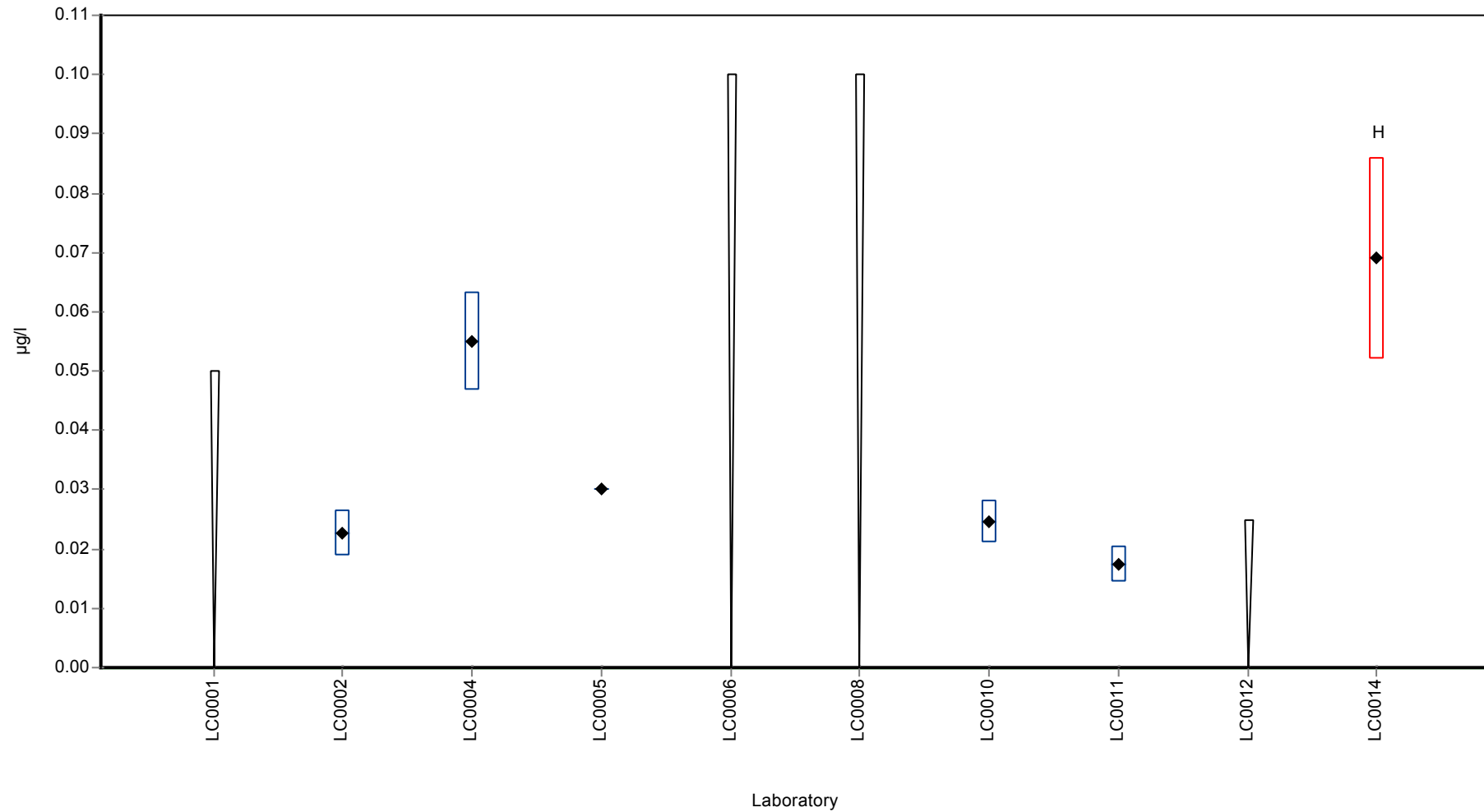
#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.0365 ± 0.0253	-	µg/l
Minimum	0.0174	0.0174	µg/l
Maximum	0.069	0.055	µg/l
Standard deviation	0.0207	-	µg/l
rel. Standard deviation	56.7	-	%
n	6	5	-



Graphical presentation of results

Results



## Parameter oriented report

### AZ5 A

#### Diazepam

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.135 - 0.21
Control test value ± U	0.195 ± 0.0293

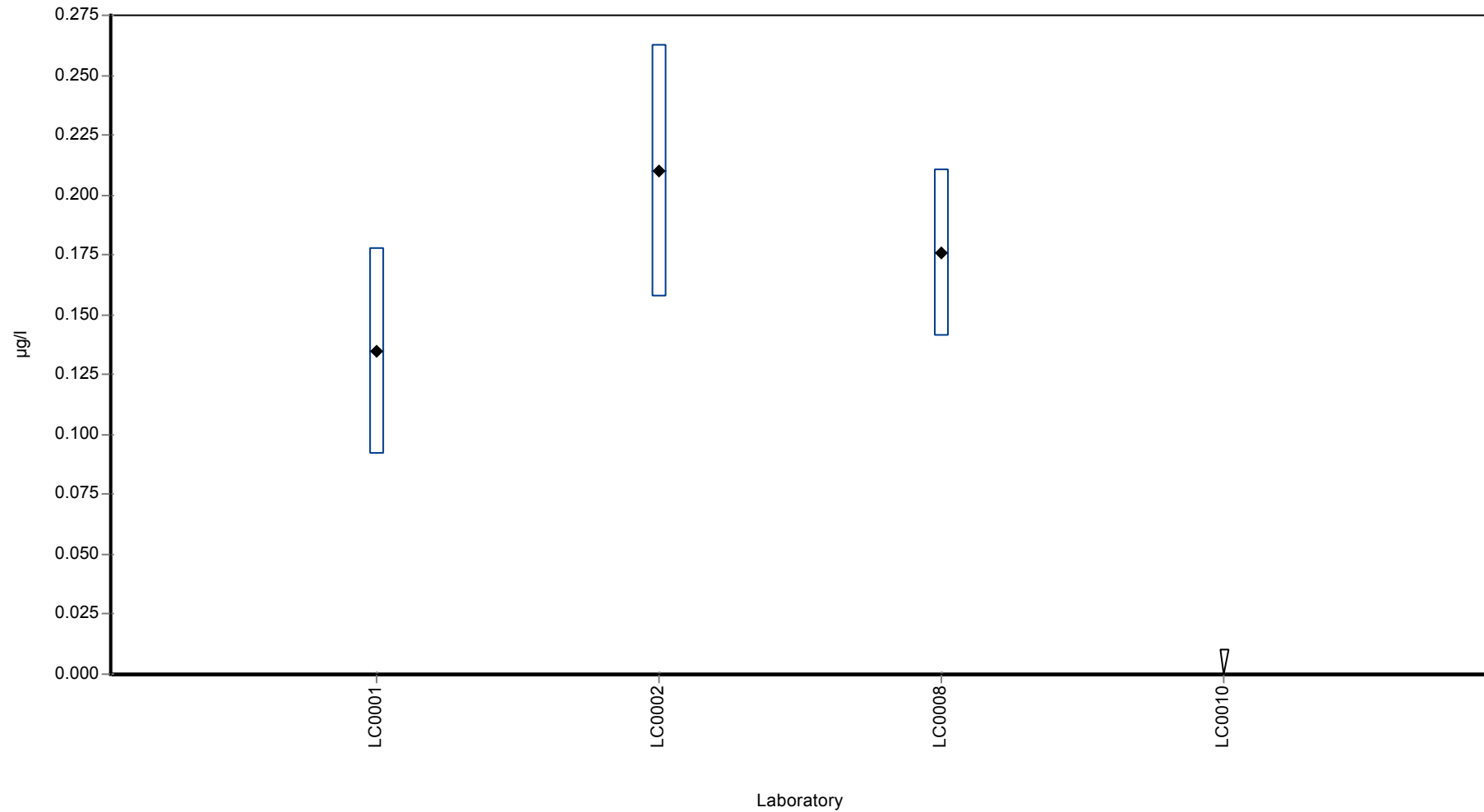
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.135	0.043	-	-	
LC0002	0.21	0.053	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	0.176	0.035	-	-	
LC0009	-	-	-	-	
LC0010	< 0.01 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.174 ± 0.065	-	µg/l
Minimum	0.135	0.135	µg/l
Maximum	0.21	0.21	µg/l
Standard deviation	0.0376	-	µg/l
rel. Standard deviation	21.6	-	%
n	3	3	-

Graphical presentation of results

Results



## Parameter oriented report

### AZ5 B

#### Diazepam

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.191 - 0.191
Control test value ± U	<0.025 (NG)

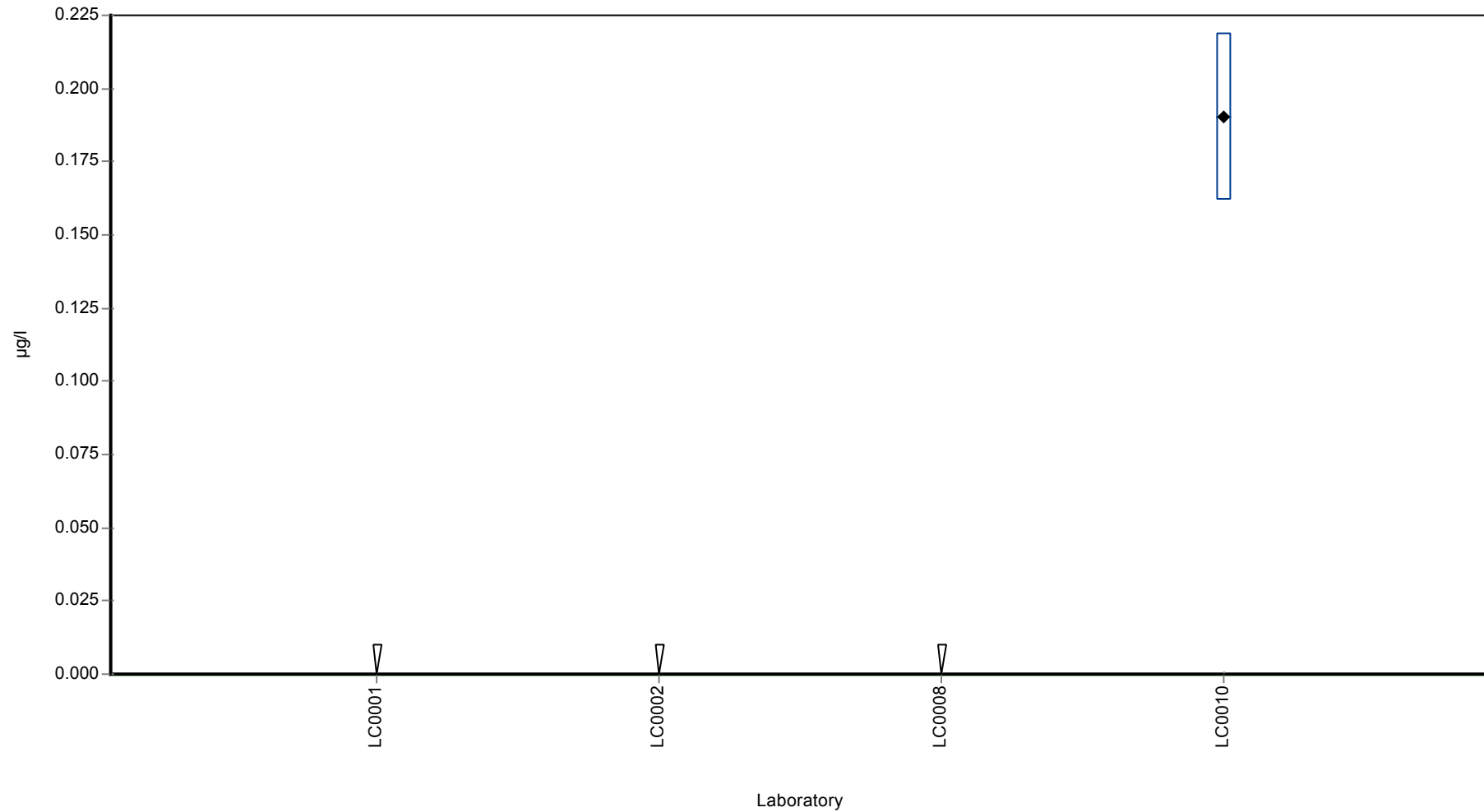
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0.01 (LOQ)	-	-	-	
LC0002	< 0.01 (LOQ)	-	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	< 0.01 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	0.1905	0.0286	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.191	-	µg/l
Minimum	0.191	0.191	µg/l
Maximum	0.191	0.191	µg/l
Standard deviation	-	-	µg/l
rel. Standard deviation	-	-	%
n	1	1	-

**Graphical presentation of results**

**Results**



## Parameter oriented report

### AZ5 A

#### Diclofenac

Unit	µg/l
Mean ± CI (99%)	0.143 ± 0.0262
Minimum - Maximum	0.102 - 0.218
Control test value ± U	0.117 ± 0.0293

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.128	0.037	89.6	-0.49	
LC0002	0.142	0.036	99.4	-0.03	
LC0003	0.147	0.044	103	0.14	
LC0004	0.218	0.0327	153	2.49	
LC0005	0.159	-	111	0.53	
LC0006	0.14	0.028	98	-0.1	
LC0007	0.102	0.008	71.4	-1.35	
LC0008	0.119	0.024	83.3	-0.79	
LC0009	0.133	0.0358	93.1	-0.33	
LC0010	0.1567	0.0501	110	0.46	
LC0011	0.11	0.02	77	-1.09	
LC0012	-	-	-	-	
LC0013	0.1598	0.02557	112	0.56	
LC0014	-	-	-	-	

#### Characteristics of parameter

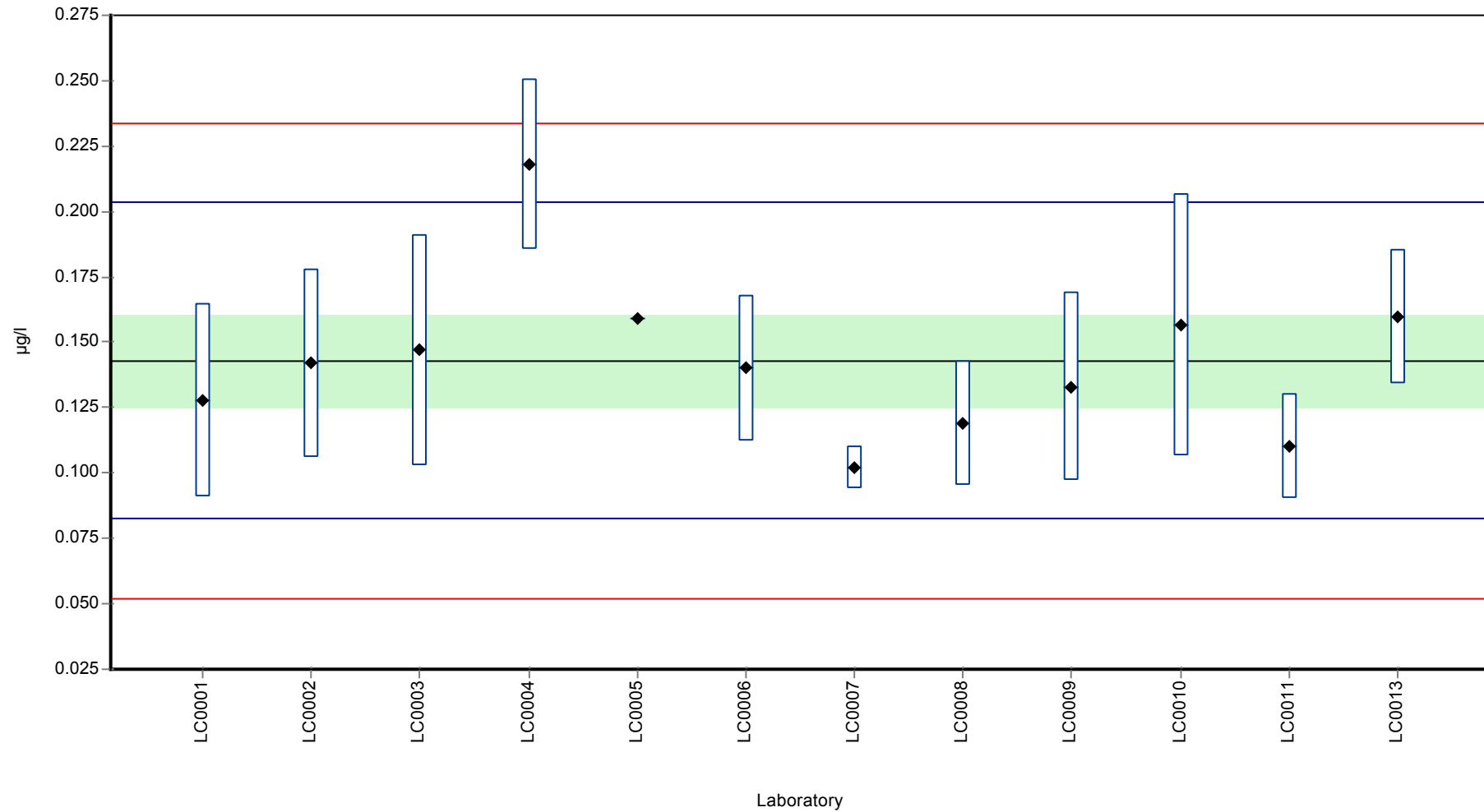
	all results	without outliers	Unit
Mean ± CI (99%)	0.143 ± 0.0262	0.143 ± 0.0262	µg/l
Minimum	0.102	0.102	µg/l
Maximum	0.218	0.218	µg/l
Standard deviation	0.0302	0.0302	µg/l
rel. Standard deviation	21.2	21.2	%
n	12	12	-

Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Diclofenac

Graphical presentation of results

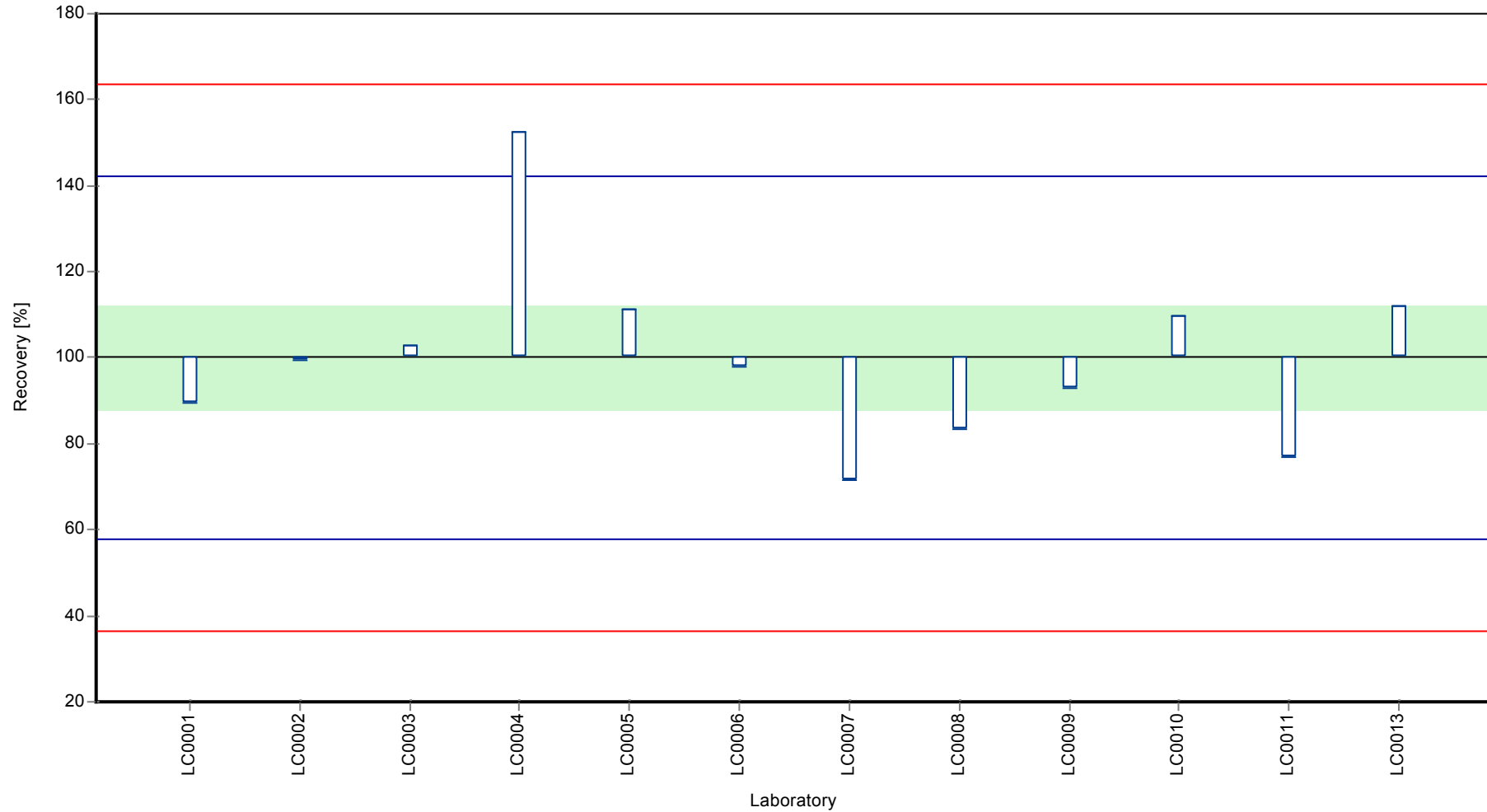
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Diclofenac

**Recovery rate**

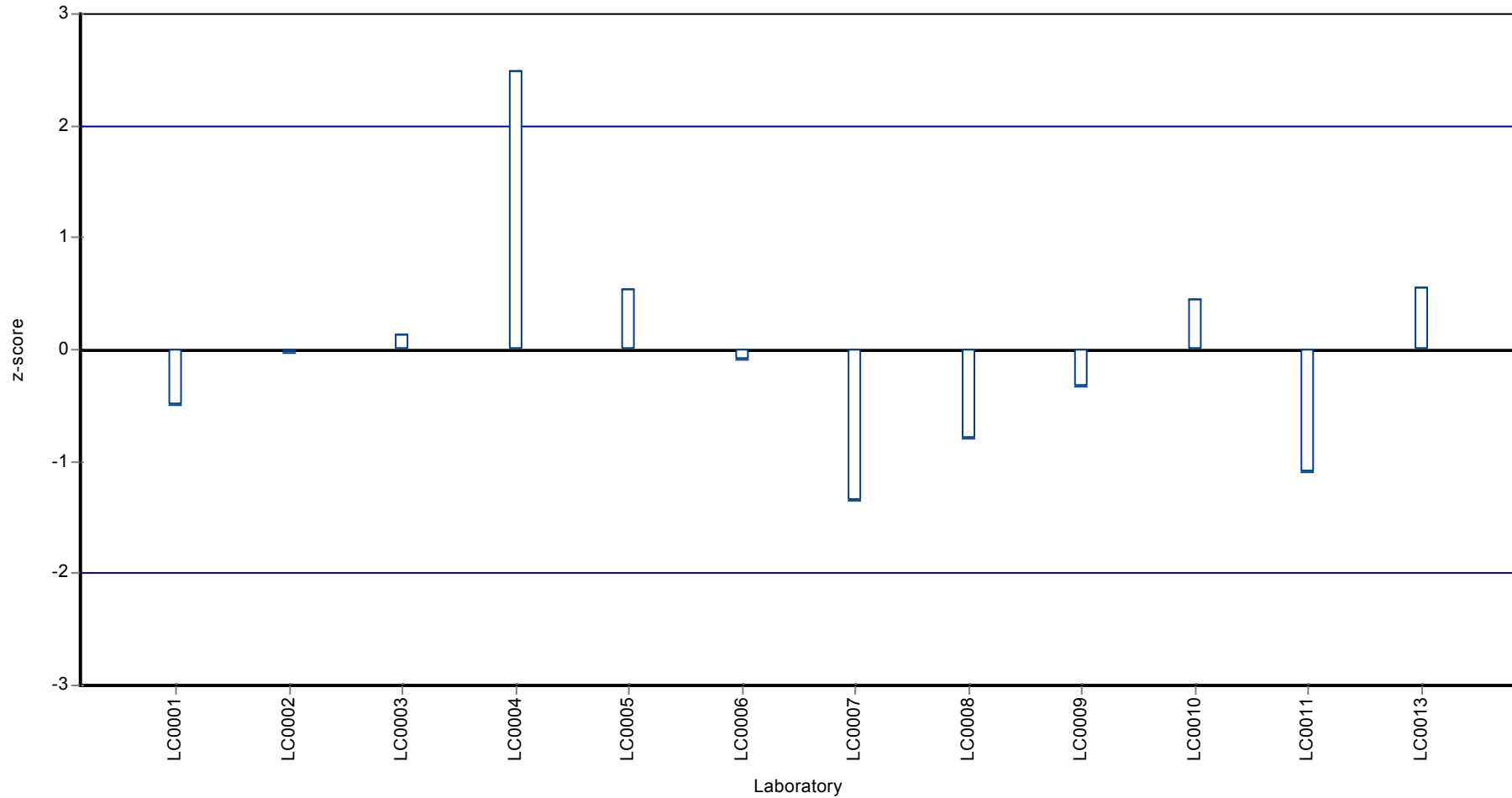




Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Diclofenac

**Z-score**



## Parameter oriented report

### AZ5 B

#### Diclofenac

Unit	µg/l
Mean ± CI (99%)	2.79 ± 0.254
Minimum - Maximum	2.4 - 3.27
Control test value ± U	3.29 ± 0.494

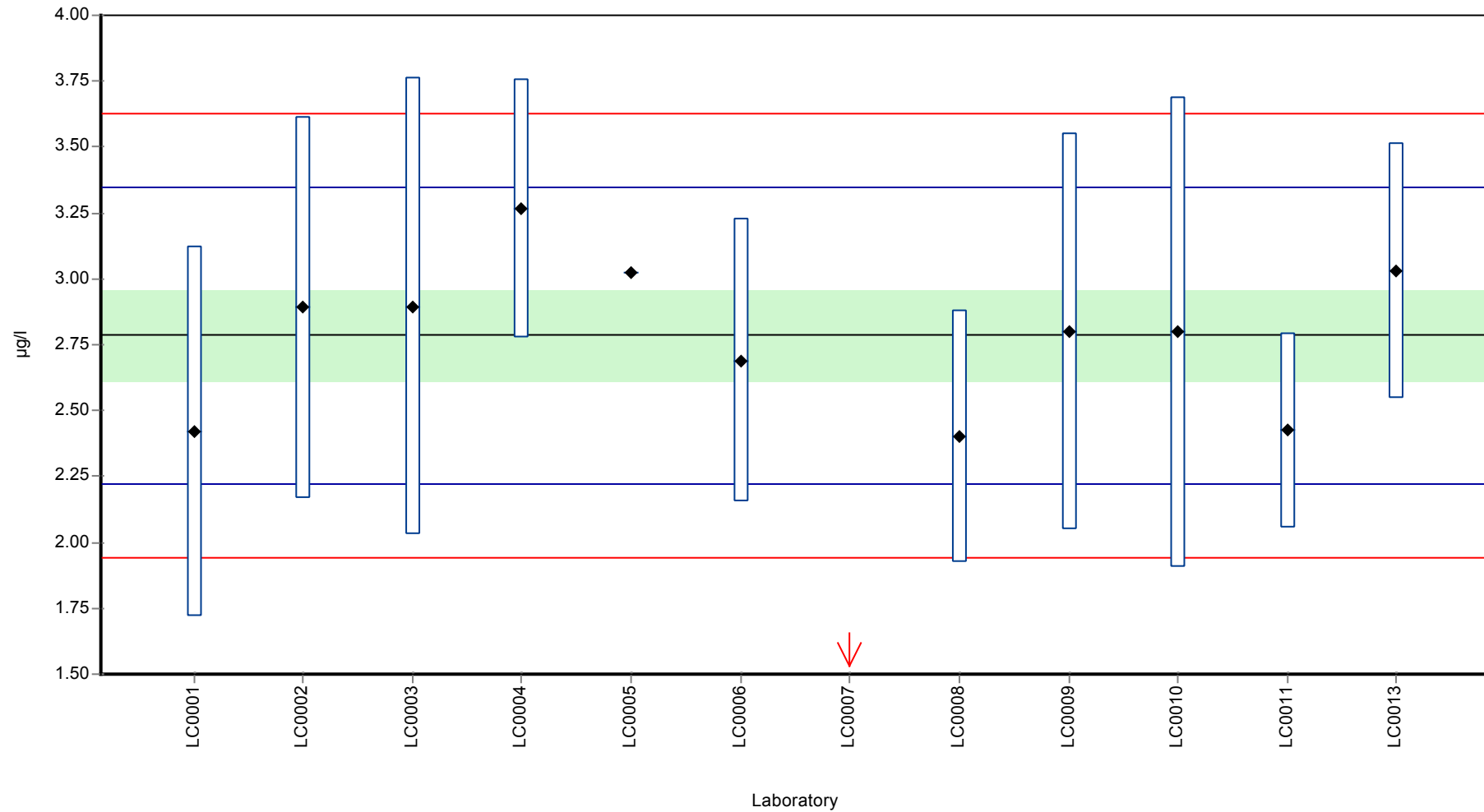
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.423	0.703	87	-1.29	
LC0002	2.89	0.723	104	0.37	
LC0003	2.896	0.869	104	0.4	
LC0004	3.265	0.49	117	1.71	
LC0005	3.021	-	108	0.84	
LC0006	2.69	0.538	96.6	-0.34	
LC0007	1.259	0.093	45.2	-5.44	H
LC0008	2.4	0.48	86.2	-1.37	
LC0009	2.8	0.753	101	0.05	
LC0010	2.7968	0.895	100	0.04	
LC0011	2.425	0.37	87.1	-1.28	
LC0012	-	-	-	-	
LC0013	3.0289	0.4846	109	0.87	
LC0014	-	-	-	-	

#### Characteristics of parameter

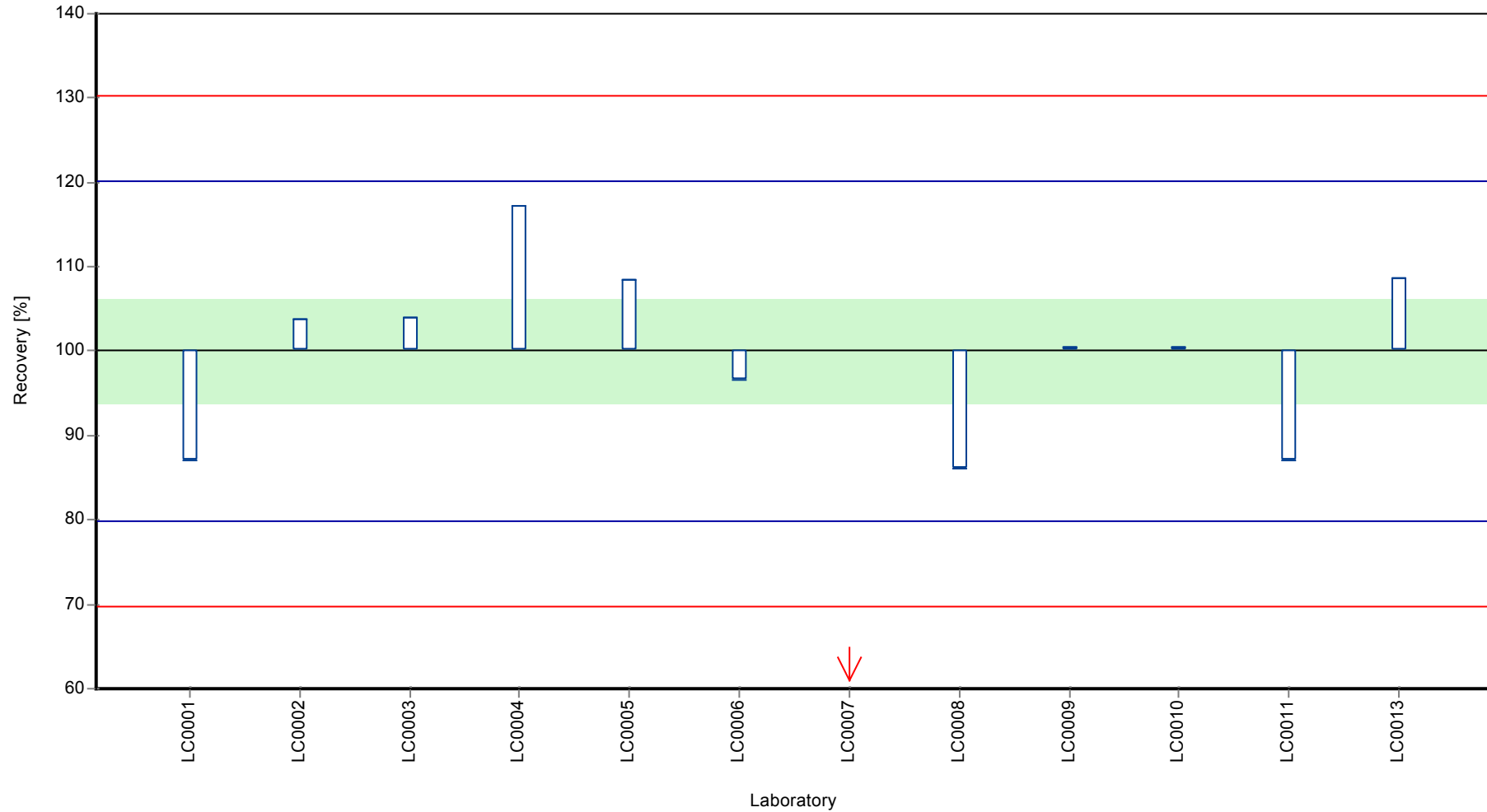
	all results	without outliers	Unit
Mean ± CI (99%)	2.66 ± 0.446	2.79 ± 0.254	µg/l
Minimum	1.26	2.4	µg/l
Maximum	3.27	3.27	µg/l
Standard deviation	0.515	0.281	µg/l
rel. Standard deviation	19.4	10.1	%
n	12	11	-

Graphical presentation of results

Results



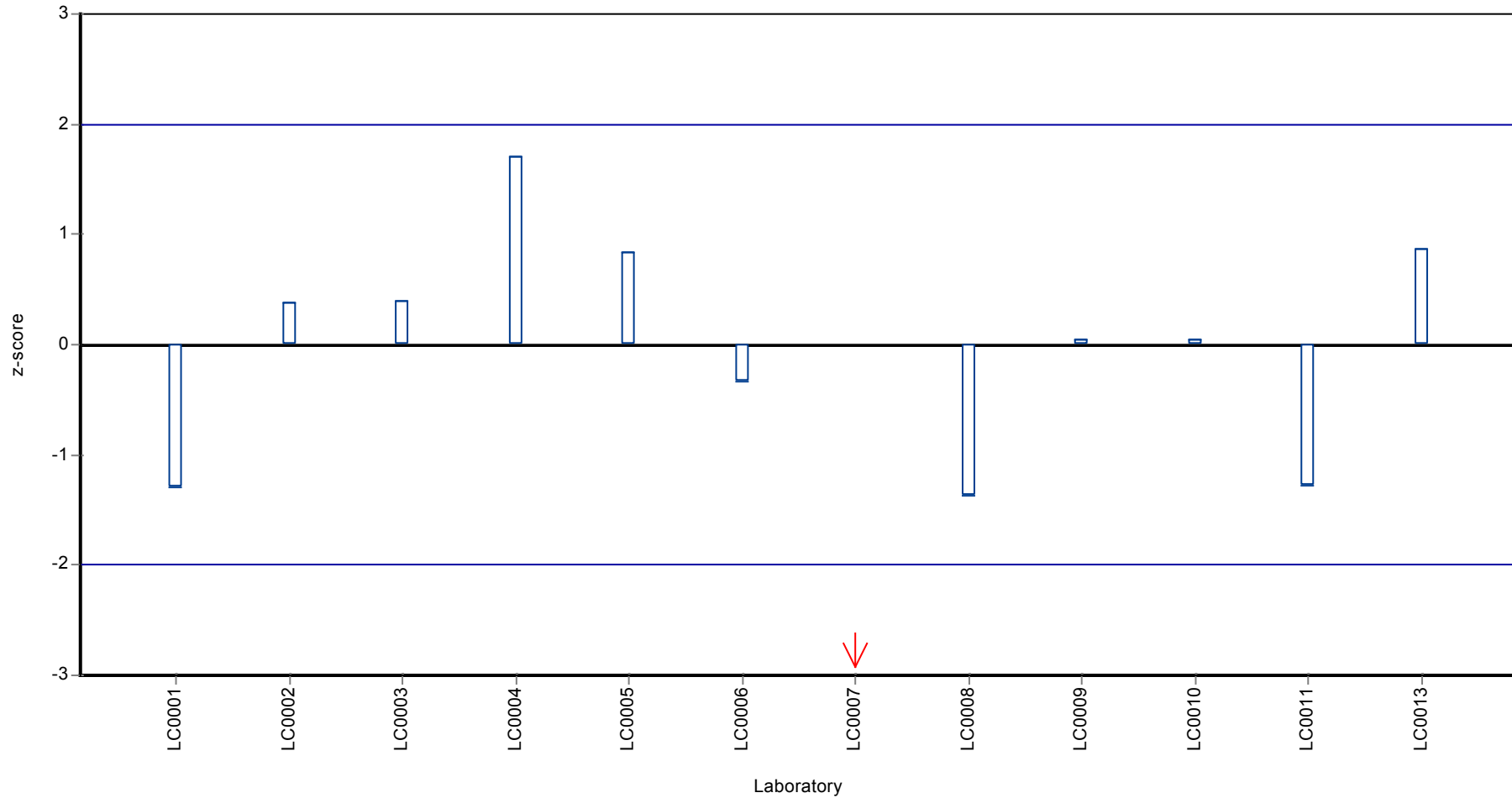
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Diclofenac

**Z-score**



## Parameter oriented report

### AZ5 A

#### Ibuprofen

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.012 - 0.017
Control test value ± U	<0.025 (NG)

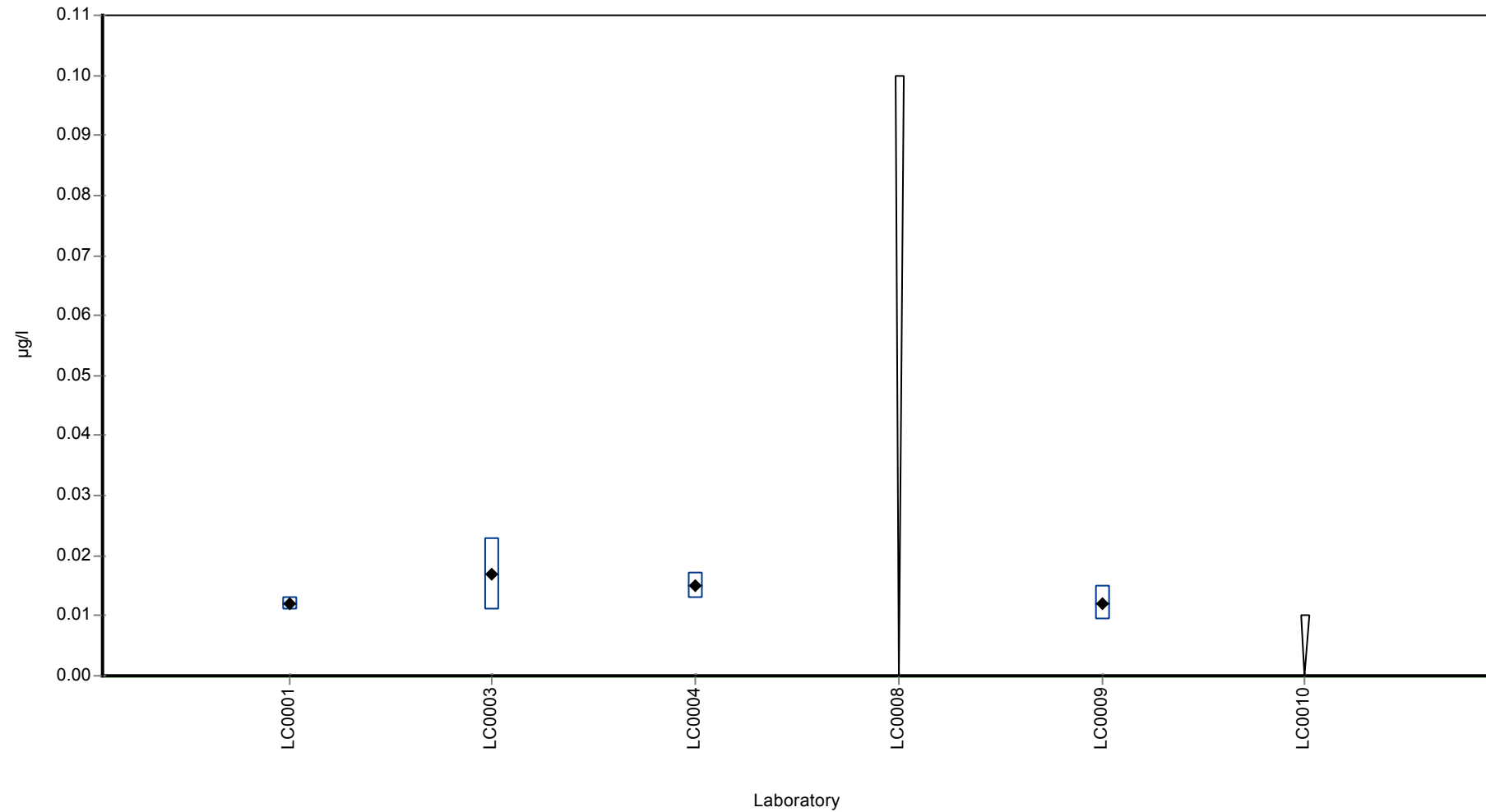
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.012	0.001	-	-	
LC0002	-	-	-	-	
LC0003	0.017	0.006	-	-	
LC0004	0.015	0.00225	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	< 0.1 (LOQ)	-	-	-	
LC0009	0.0121	0.0028	-	-	
LC0010	< 0.01 (LOQ)	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.014 ± 0.00363	-	µg/l
Minimum	0.012	0.012	µg/l
Maximum	0.017	0.017	µg/l
Standard deviation	0.00242	-	µg/l
rel. Standard deviation	17.3	-	%
n	4	4	-

Graphical presentation of results

Results



## Parameter oriented report

### AZ5 B

#### Ibuprofen

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0.782 - 0.971
Control test value ± U	1.03 ± 0.155

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.782	0.078	-	-	
LC0002	-	-	-	-	
LC0003	0.79	0.277	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	< 0.1 (LOQ)	-	-	-	
LC0009	0.971	0.229	-	-	
LC0010	0.9522	0.3047	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	

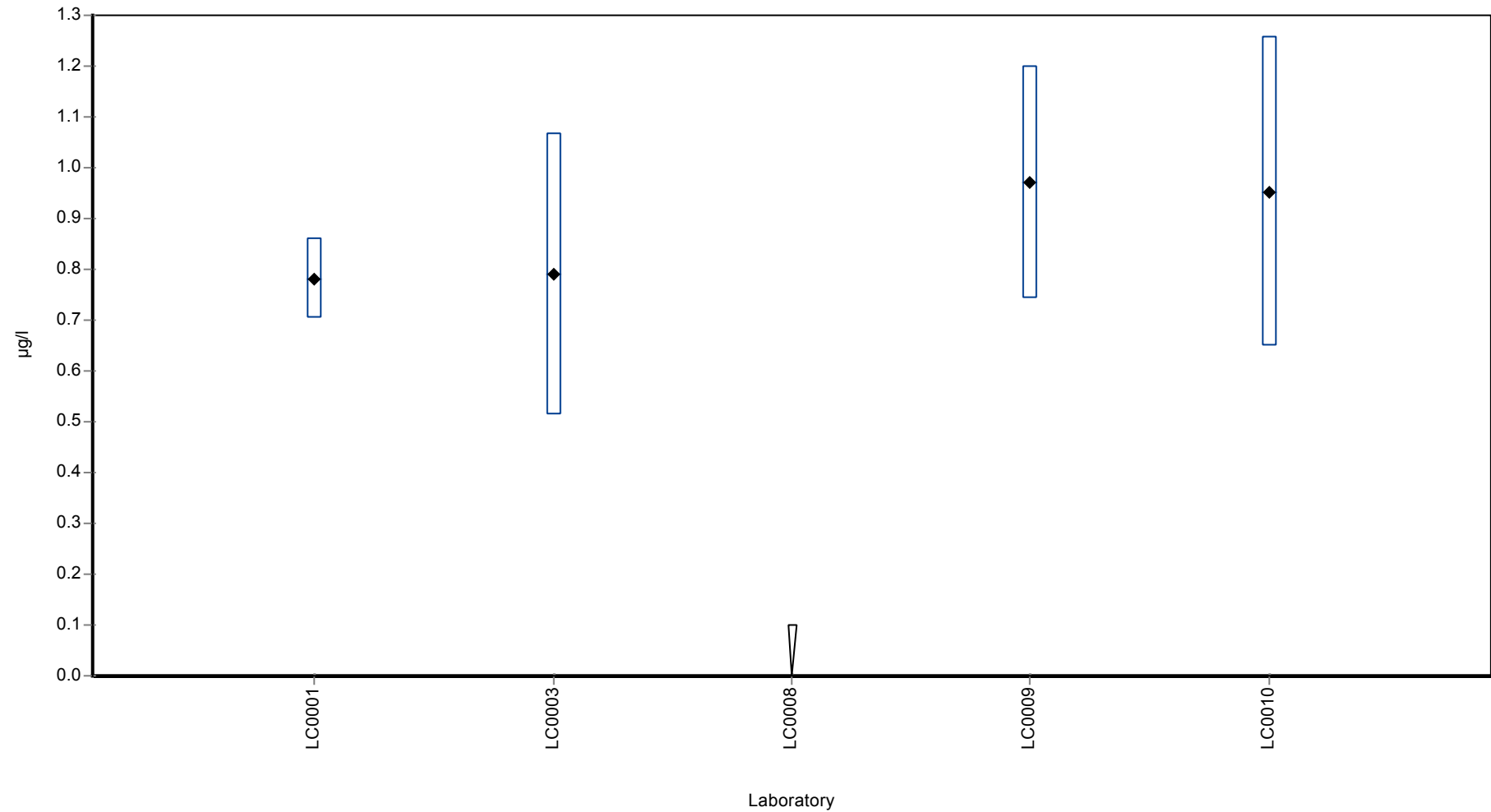
#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.874 ± 0.153	-	µg/l
Minimum	0.782	0.782	µg/l
Maximum	0.971	0.971	µg/l
Standard deviation	0.102	-	µg/l
rel. Standard deviation	11.6	-	%
n	4	4	-



Graphical presentation of results

Results



## Parameter oriented report

### AZ5 A

#### Iopamidol

Unit	µg/l
Mean ± CI (99%)	0.294 ± 0.0528
Minimum - Maximum	0.227 - 0.361
Control test value ± U	0.222 ± 0.0333

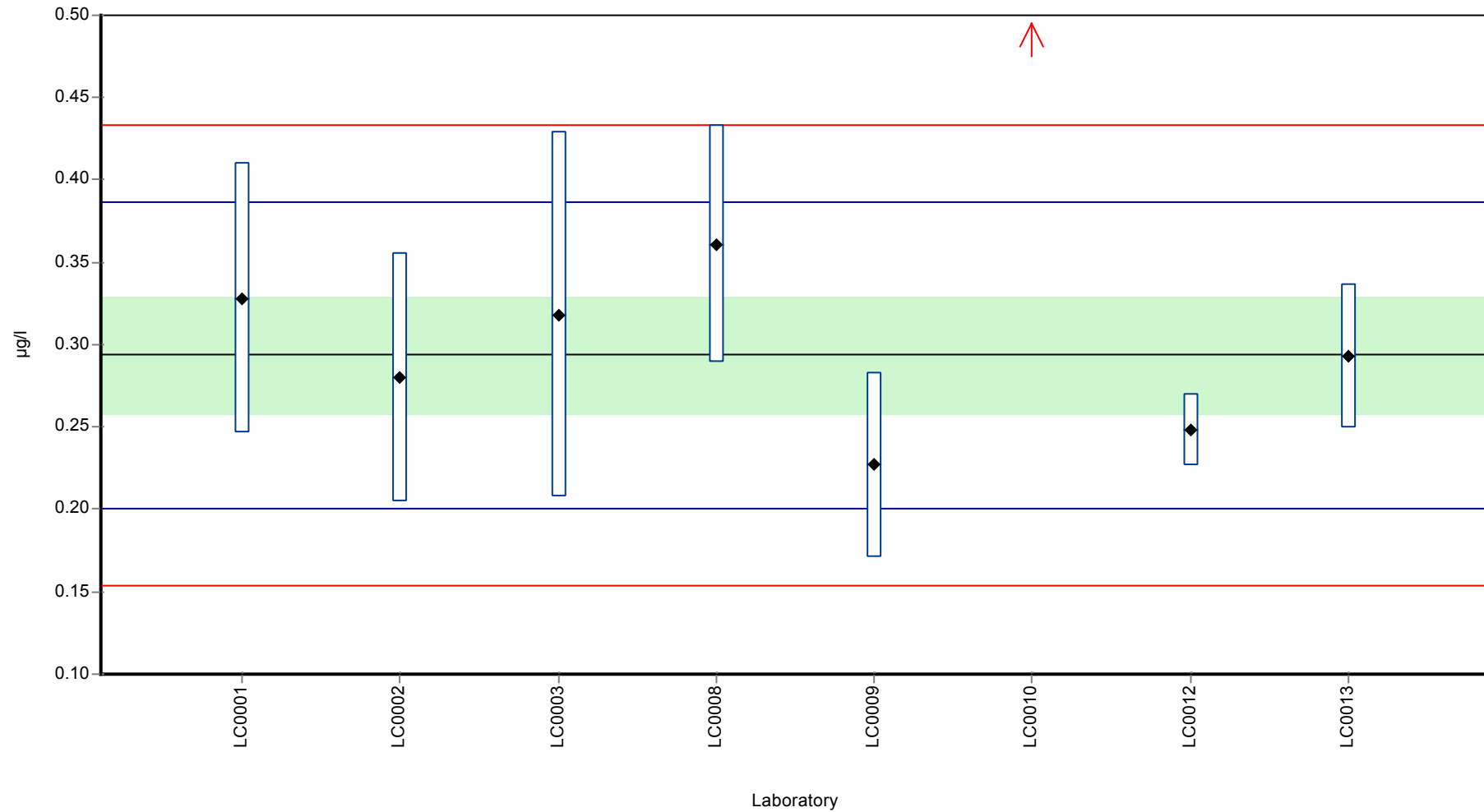
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.328	0.082	112	0.74	
LC0002	0.28	0.0756	95.3	-0.29	
LC0003	0.318	0.111	108	0.52	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	0.361	0.072	123	1.45	
LC0009	0.227	0.0563	77.3	-1.43	
LC0010	10.2565	1.5385	3490	214	H
LC0011	-	-	-	-	
LC0012	0.2483	0.0223	84.6	-0.97	
LC0013	0.2933	0.044	99.9	-0.01	
LC0014	-	-	-	-	

#### Characteristics of parameter

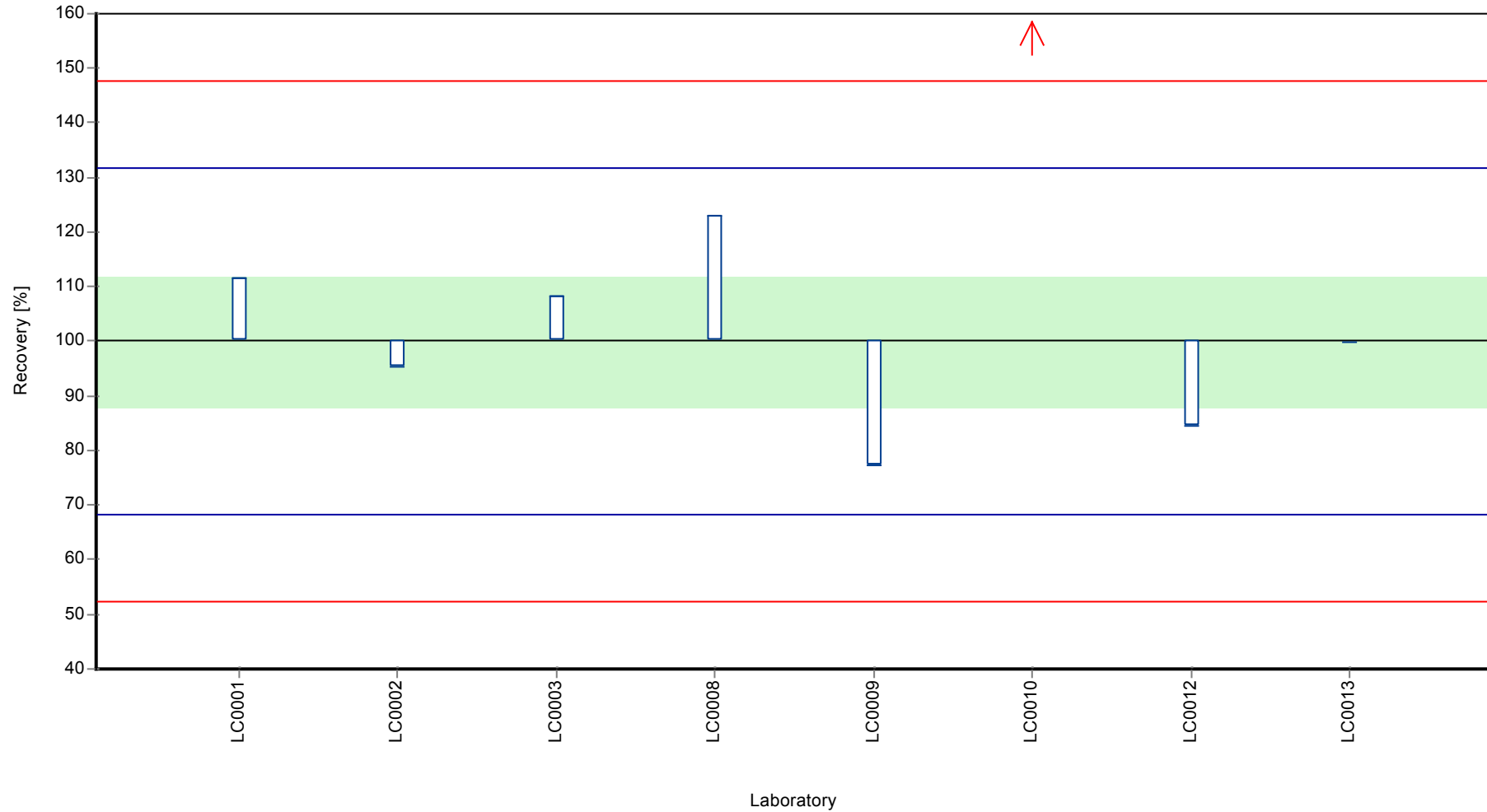
	all results	without outliers	Unit
Mean ± CI (99%)	1.54 ± 3.74	0.294 ± 0.0528	µg/l
Minimum	0.227	0.227	µg/l
Maximum	10.3	0.361	µg/l
Standard deviation	3.52	0.0465	µg/l
rel. Standard deviation	229	15.8	%
n	8	7	-

Graphical presentation of results

Results



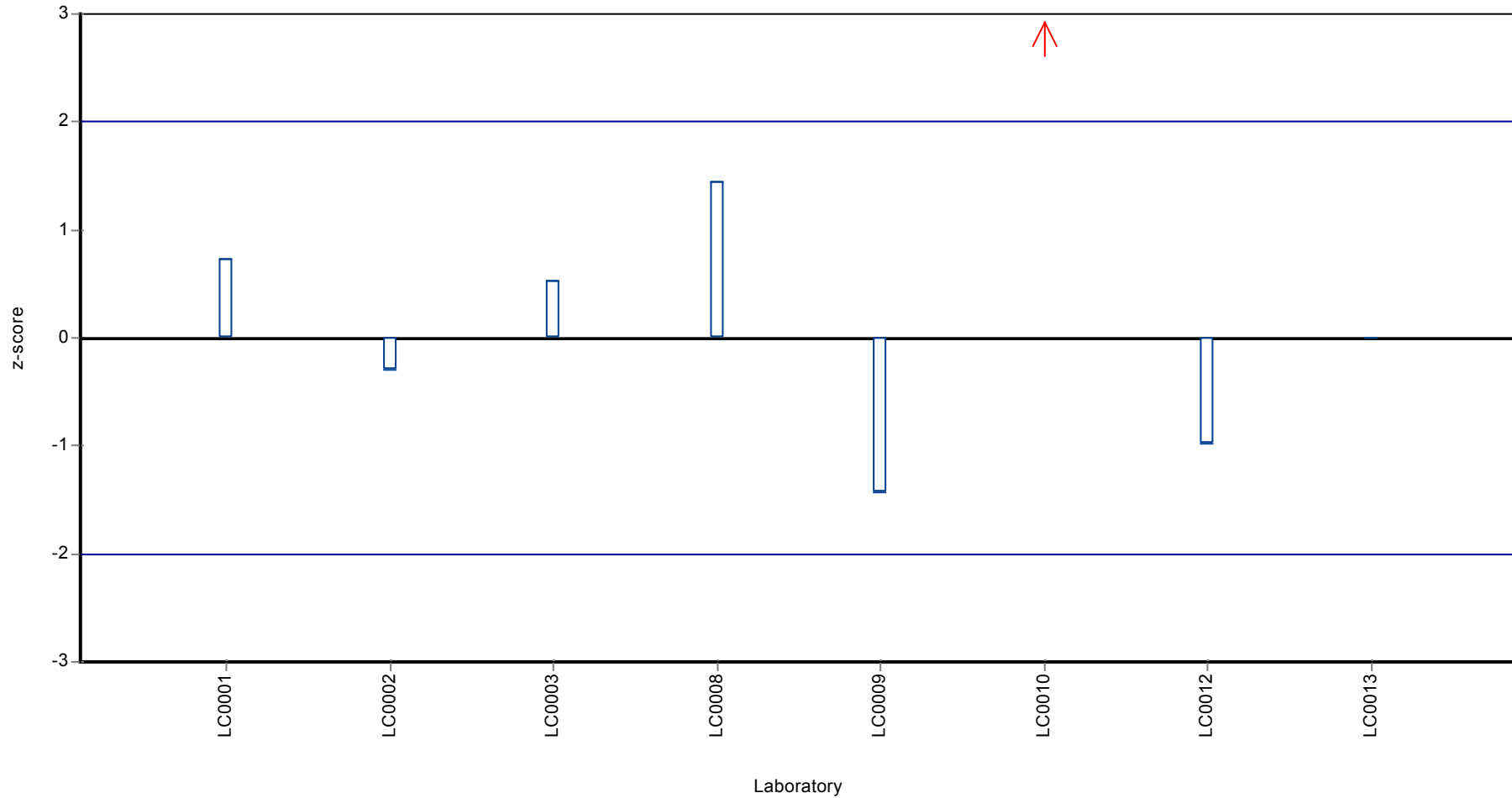
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Iopamidol

**Z-score**



## Parameter oriented report

### AZ5 B

#### Iopamidol

Unit	µg/l
Mean ± CI (99%)	9.93 ± 1.84
Minimum - Maximum	7.18 - 12.2
Control test value ± U	8.57 ± 1.28

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	9.632	2.408	97	-0.18	
LC0002	9.43	2.5461	95	-0.31	
LC0003	11.418	3.996	115	0.92	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	12.2	2.4	123	1.4	
LC0009	10.28	2.55	104	0.22	
LC0010	0.3064	0.046	3.1	-5.94	H
LC0011	-	-	-	-	
LC0012	7.1798	0.6462	72.3	-1.7	
LC0013	9.341	1.30774	94.1	-0.36	
LC0014	-	-	-	-	

#### Characteristics of parameter

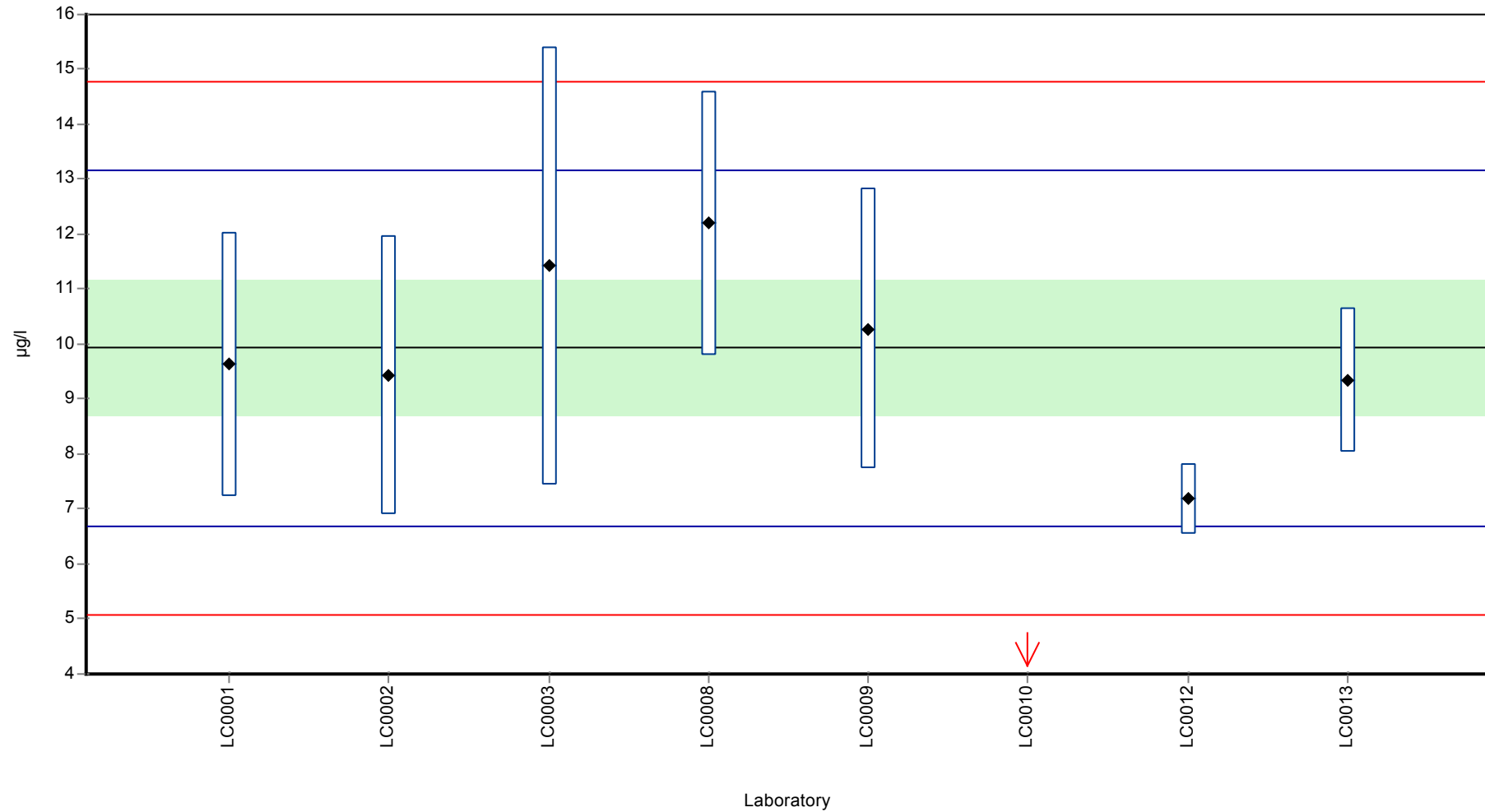
	all results	without outliers	Unit
Mean ± CI (99%)	8.72 ± 3.94	9.93 ± 1.84	µg/l
Minimum	0.306	7.18	µg/l
Maximum	12.2	12.2	µg/l
Standard deviation	3.72	1.62	µg/l
rel. Standard deviation	42.6	16.3	%
n	8	7	-

Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Iopamidol

Graphical presentation of results

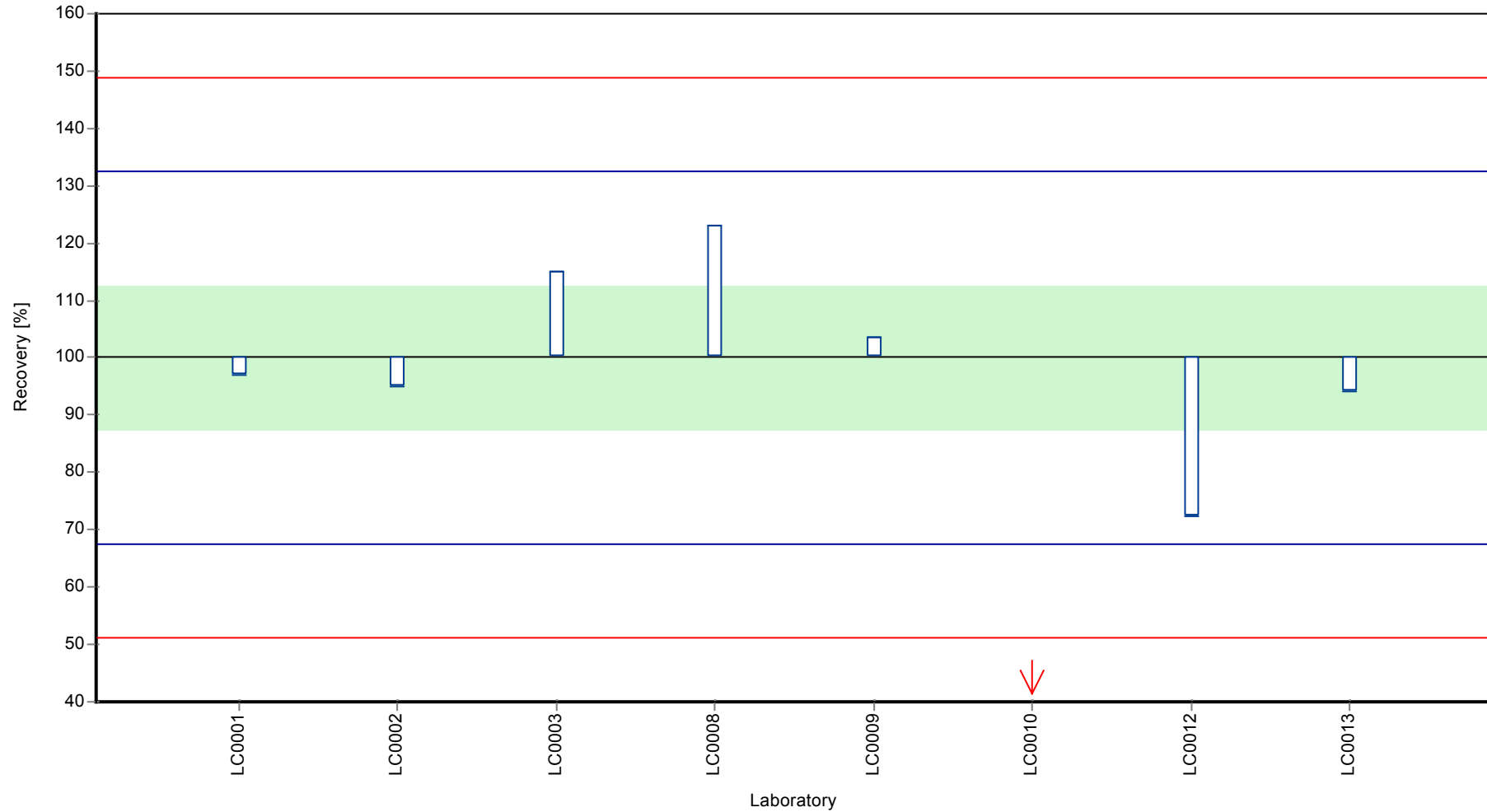
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Iopamidol

**Recovery rate**

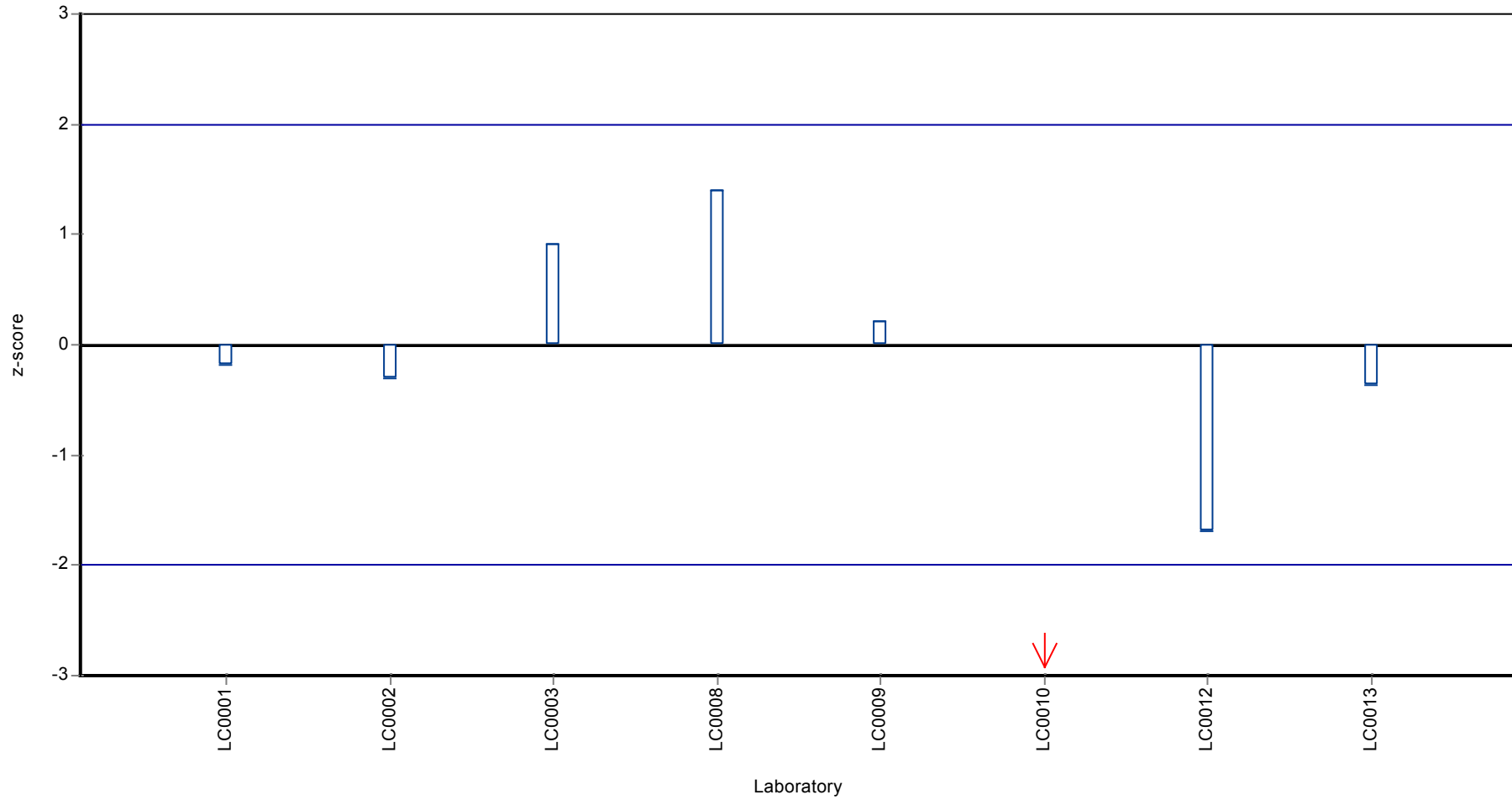




Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Iopamidol

**Z-score**



## Parameter oriented report

### AZ5 A

#### Metoprolol

Unit	µg/l
Mean ± CI (99%)	0.109 ± 0.00791
Minimum - Maximum	0.096 - 0.12
Control test value ± U	0.102 ± 0.0153

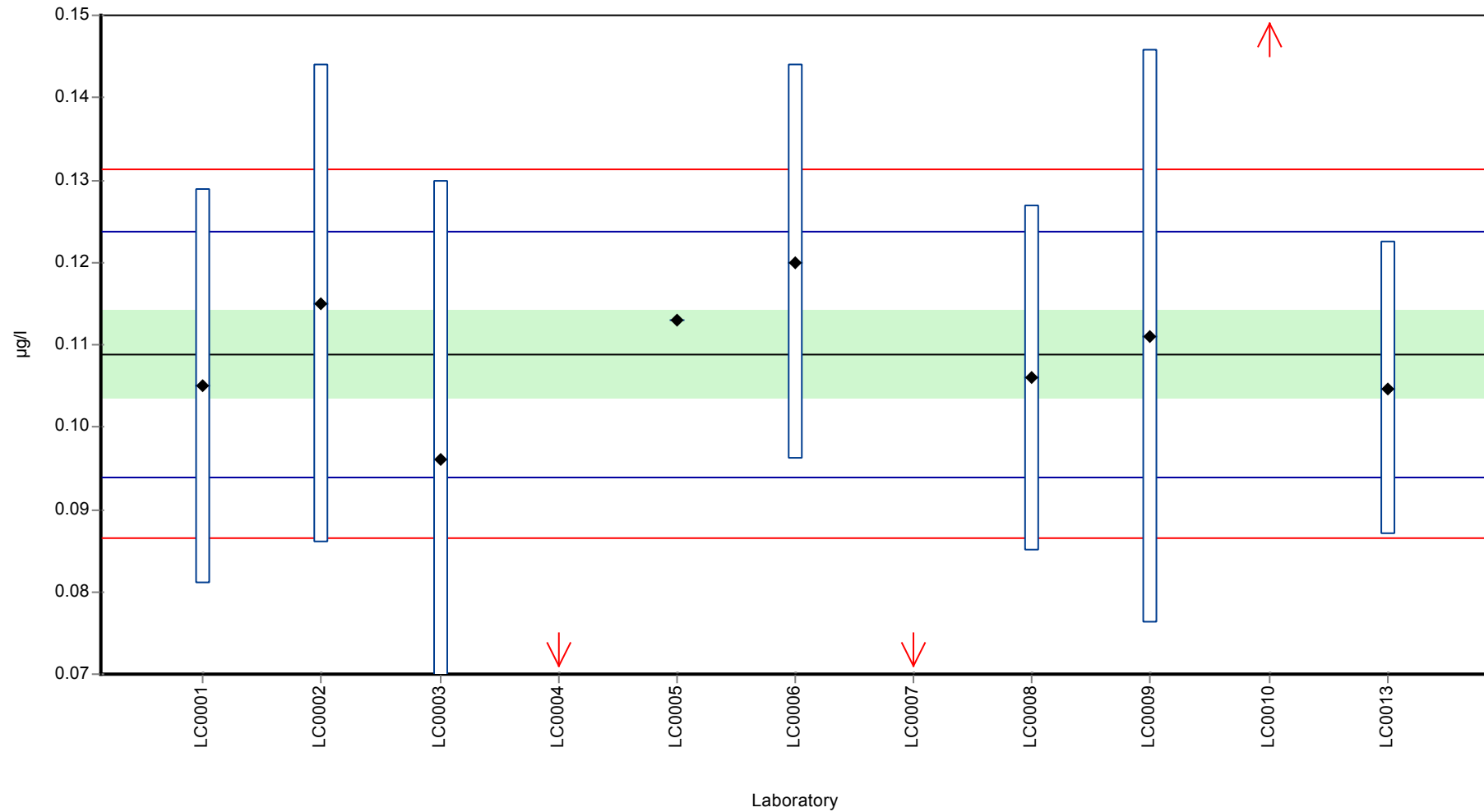
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.105	0.024	96.5	-0.52	
LC0002	0.115	0.029	106	0.83	
LC0003	0.096	0.034	88.2	-1.72	
LC0004	0.046	0.0069	42.3	-8.43	H
LC0005	0.113	-	104	0.56	
LC0006	0.12	0.024	110	1.5	
LC0007	0.05	0.004	45.9	-7.89	H
LC0008	0.106	0.021	97.4	-0.38	
LC0009	0.111	0.0349	102	0.29	
LC0010	0.251	0.0703	231	19.1	H
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.1047	0.0178	96.2	-0.56	
LC0014	-	-	-	-	

#### Characteristics of parameter

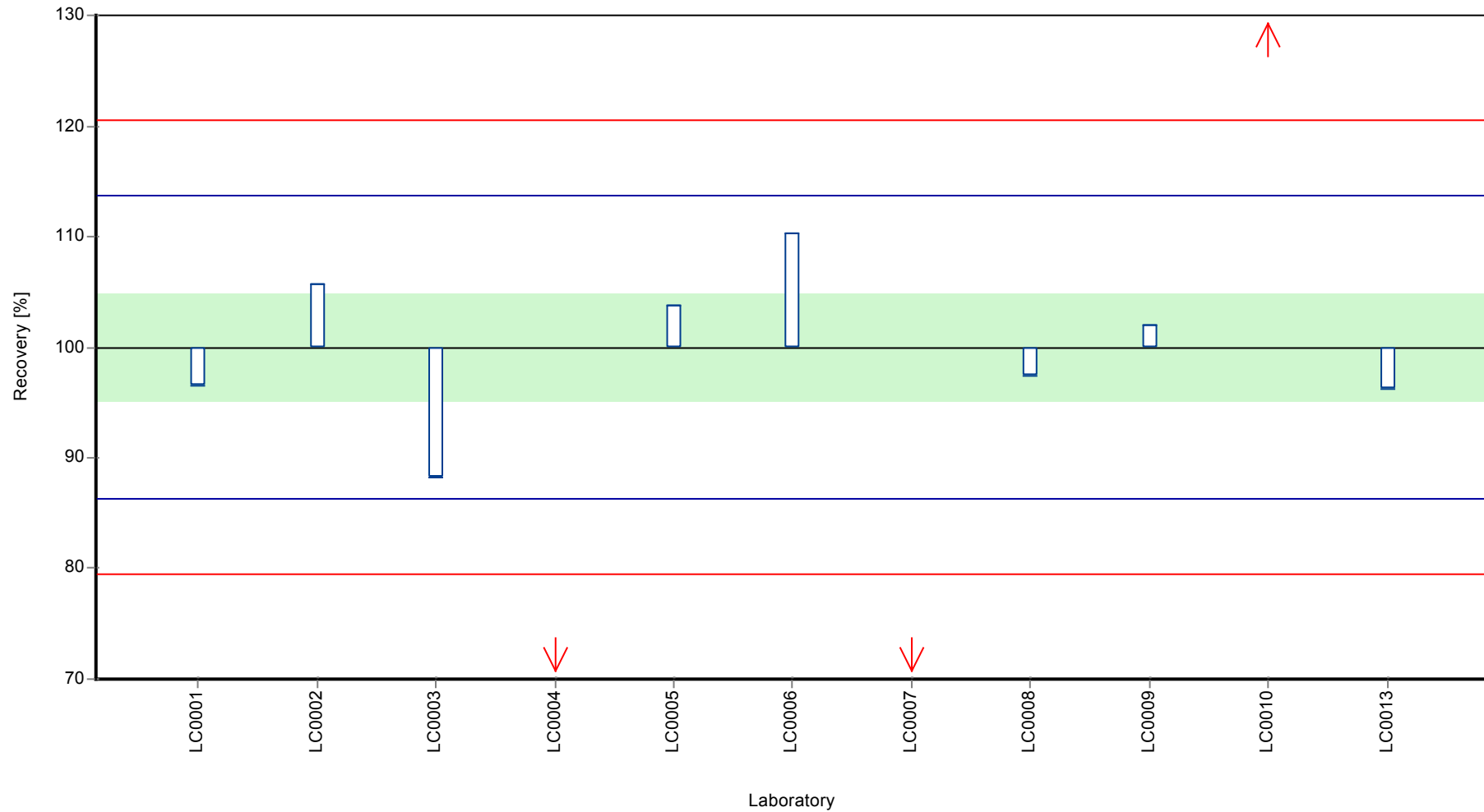
	all results	without outliers	Unit
Mean ± CI (99%)	0.111 ± 0.0478	0.109 ± 0.00791	µg/l
Minimum	0.046	0.096	µg/l
Maximum	0.251	0.12	µg/l
Standard deviation	0.0529	0.00746	µg/l
rel. Standard deviation	47.8	6.85	%
n	11	8	-

Graphical presentation of results

Results



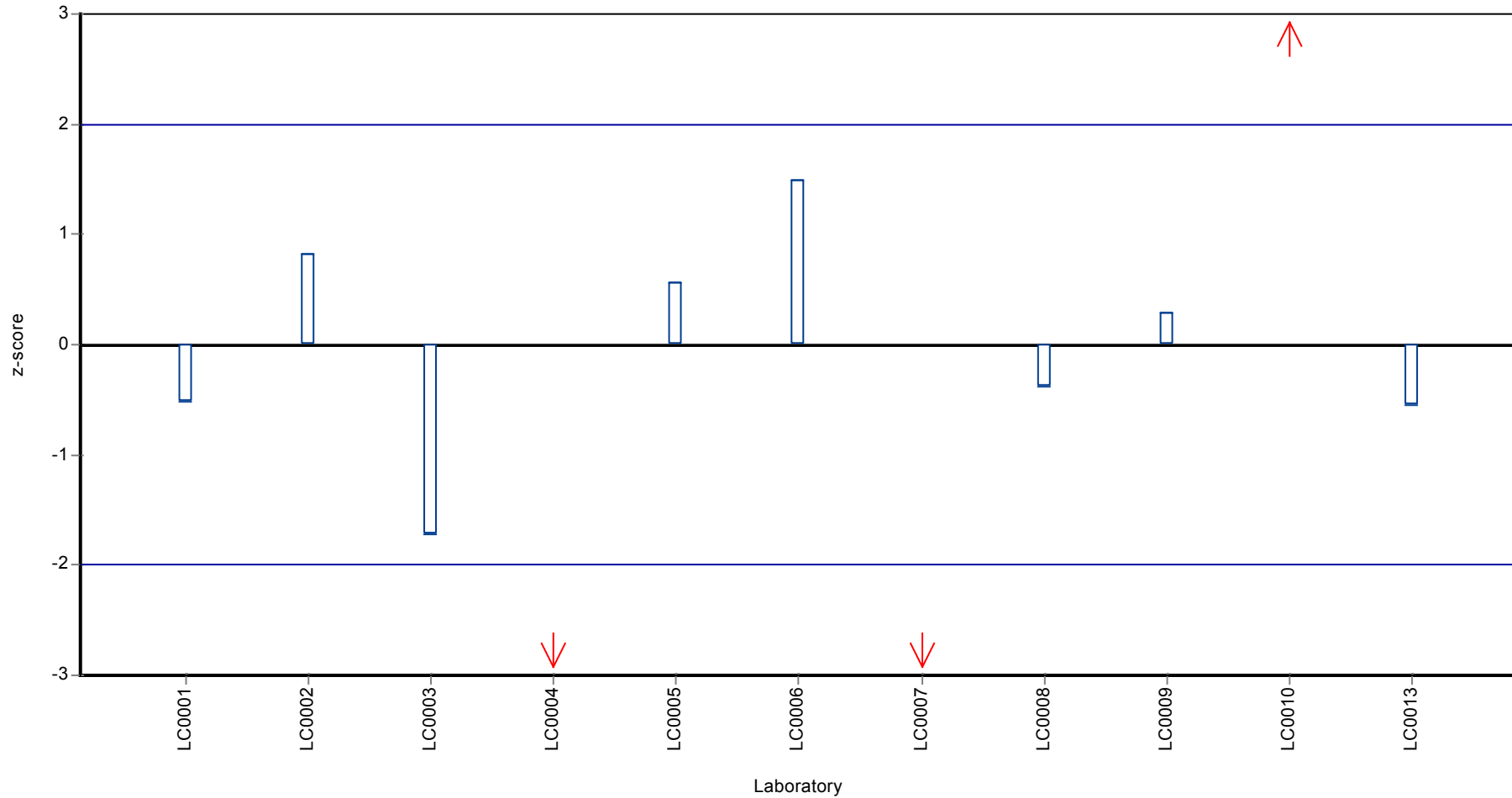
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Metoprolol

**Z-score**



## Parameter oriented report

### AZ5 B

#### Metoprolol

Unit	µg/l
Mean ± CI (99%)	0.252 ± 0.0771
Minimum - Maximum	0.114 - 0.401
Control test value ± U	0.288 ± 0.0432

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.29	0.067	115	0.44	
LC0002	0.294	0.074	117	0.49	
LC0003	0.322	0.113	128	0.82	
LC0004	0.202	0.0303	80.1	-0.59	
LC0005	0.401	-	159	1.74	
LC0006	0.29	0.058	115	0.44	
LC0007	0.114	0.01	45.2	-1.62	
LC0008	0.235	0.047	93.1	-0.2	
LC0009	0.255	0.0801	101	0.03	
LC0010	0.114	0.0319	45.2	-1.62	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.2587	0.06209	103	0.07	
LC0014	-	-	-	-	

#### Characteristics of parameter

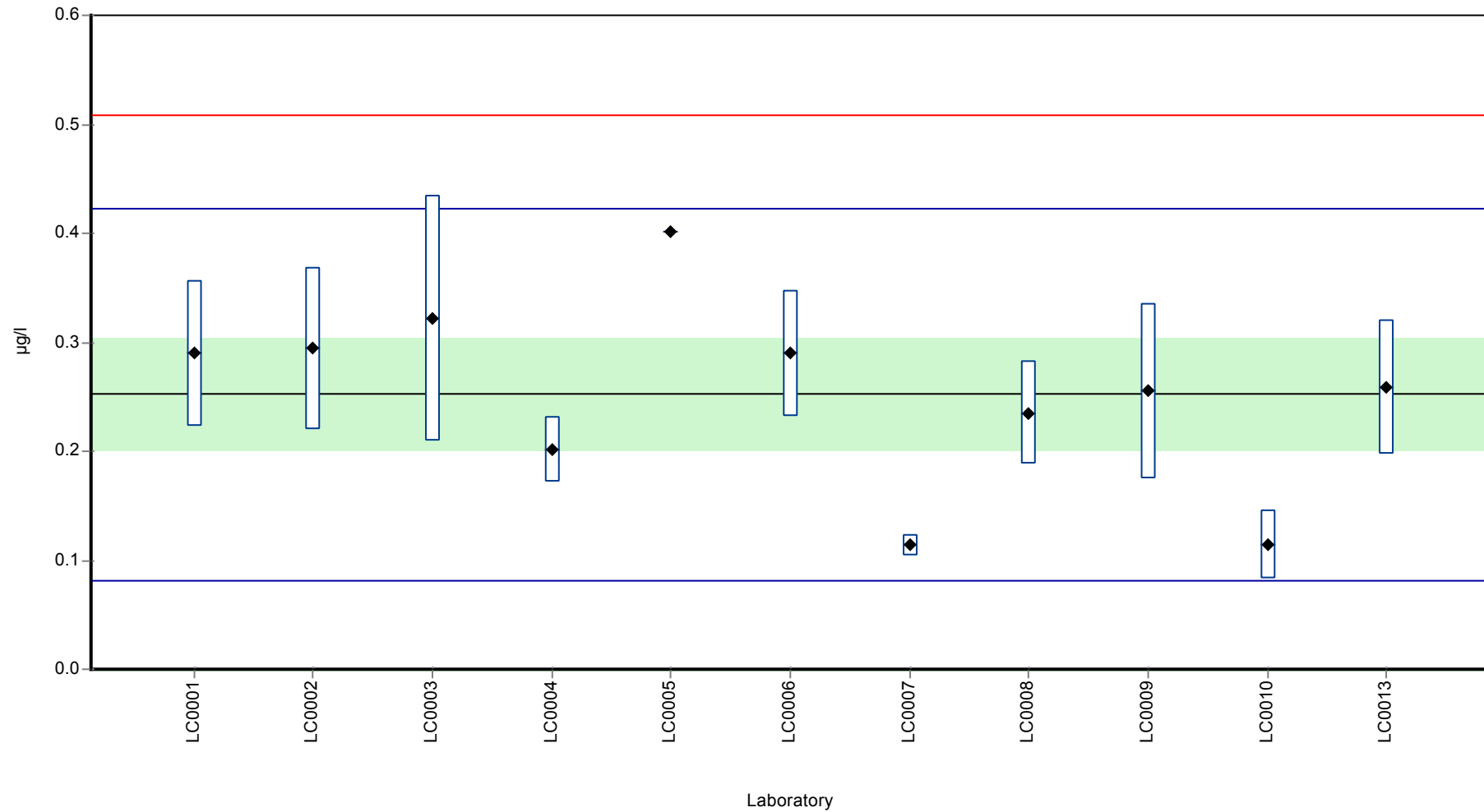
	all results	without outliers	Unit
Mean ± CI (99%)	0.252 ± 0.0771	0.252 ± 0.0771	µg/l
Minimum	0.114	0.114	µg/l
Maximum	0.401	0.401	µg/l
Standard deviation	0.0853	0.0853	µg/l
rel. Standard deviation	33.8	33.8	%
n	11	11	-

Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

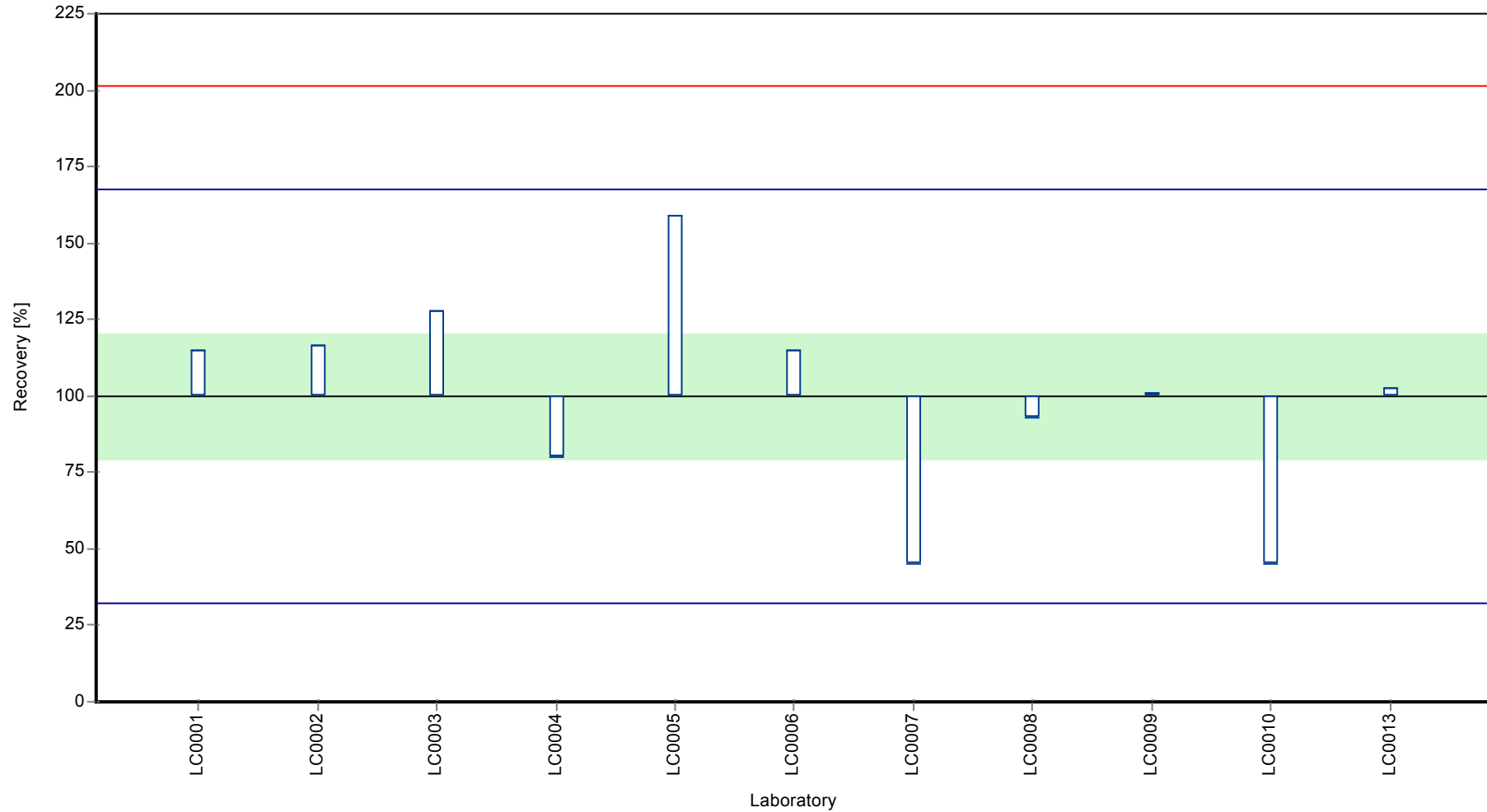
Sample: AZ5B, Parameter: Metoprolol

Graphical presentation of results

Results



**Recovery rate**

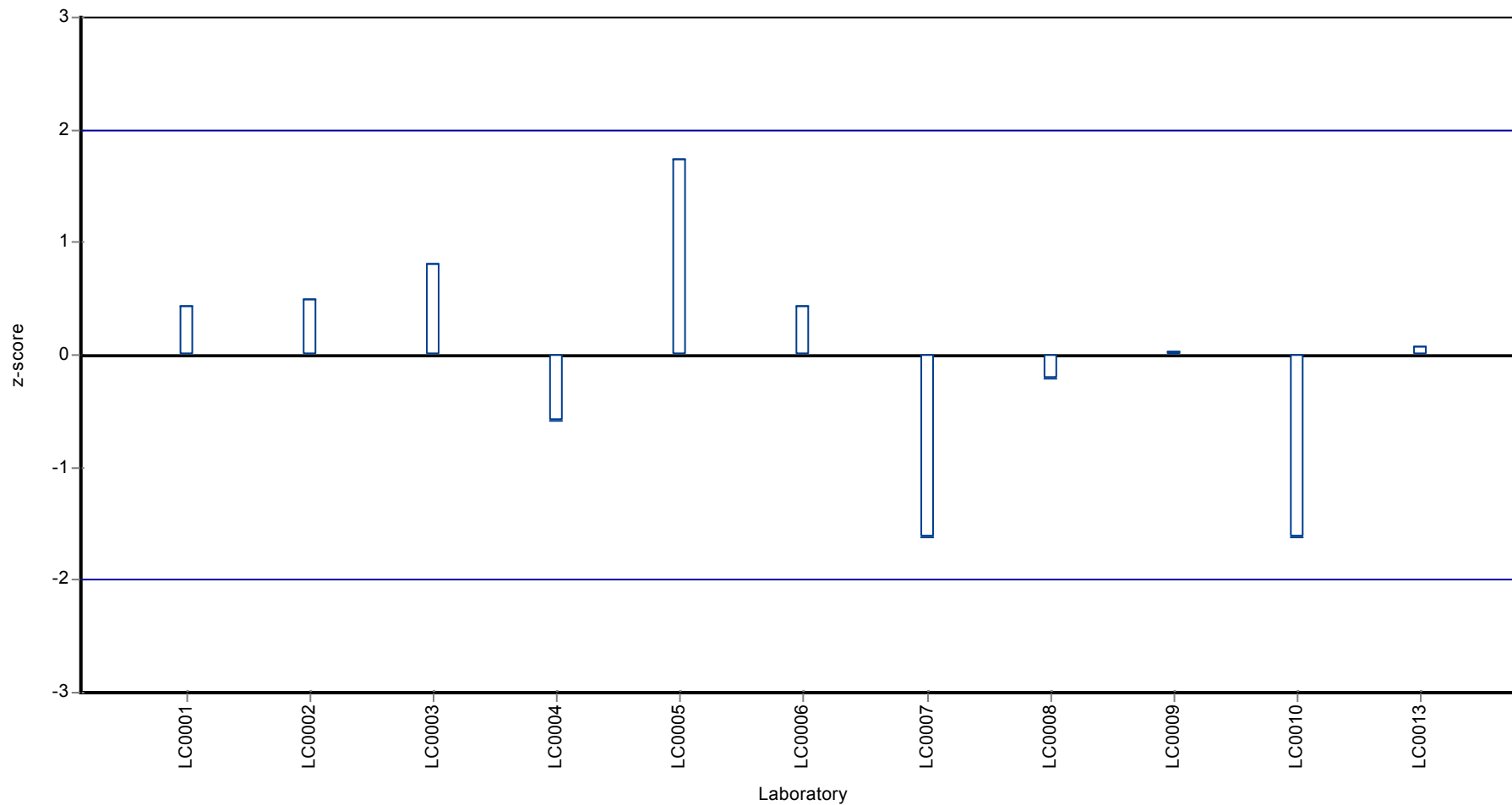




Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Metoprolol

**Z-score**



## Parameter oriented report

### AZ5 A

#### Saccharin

Unit	µg/l
Mean ± CI (99%)	0.128 ± 0.0209
Minimum - Maximum	0.098 - 0.161
Control test value ± U	0.122 ± 0.0183

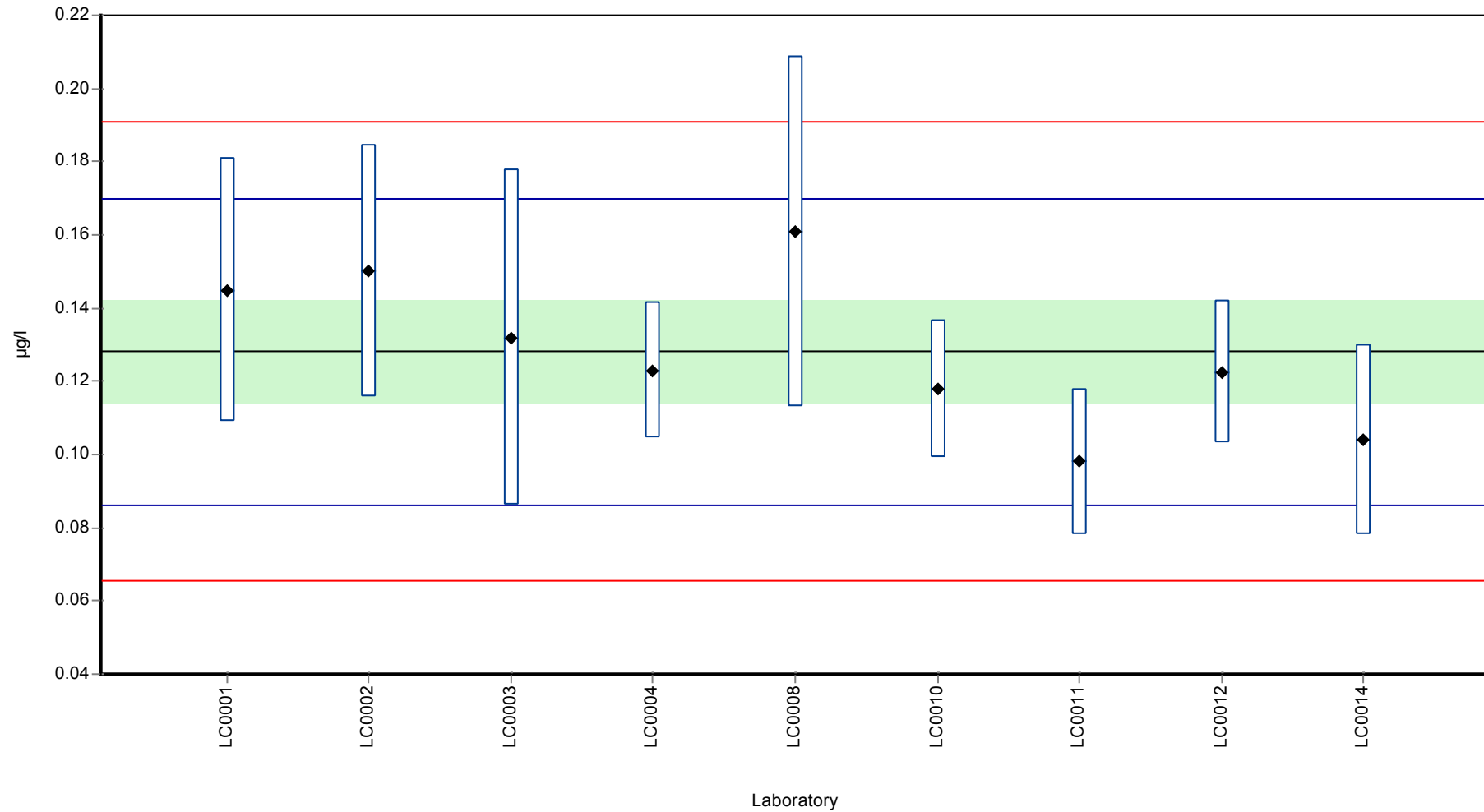
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.145	0.036	113	0.8	
LC0002	0.15	0.0345	117	1.04	
LC0003	0.132	0.046	103	0.18	
LC0004	0.123	0.0185	96	-0.25	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	0.161	0.048	126	1.57	
LC0009	-	-	-	-	
LC0010	0.118	0.0189	92.1	-0.49	
LC0011	0.098	0.02	76.5	-1.44	
LC0012	0.1226	0.0193	95.6	-0.27	
LC0013	-	-	-	-	
LC0014	0.104	0.026	81.1	-1.15	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.128 ± 0.0209	0.128 ± 0.0209	µg/l
Minimum	0.098	0.098	µg/l
Maximum	0.161	0.161	µg/l
Standard deviation	0.0209	0.0209	µg/l
rel. Standard deviation	16.3	16.3	%
n	9	9	-

Graphical presentation of results

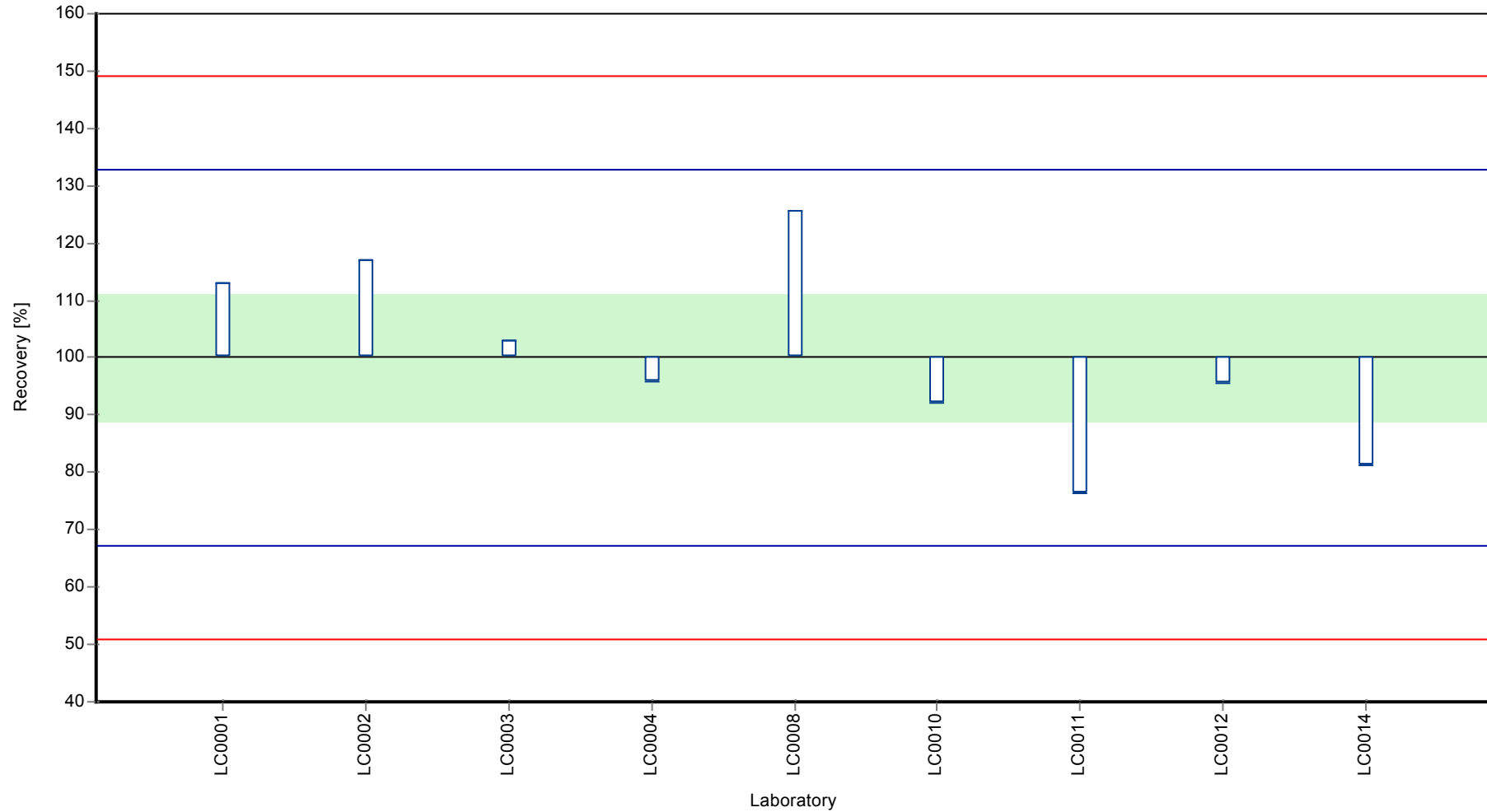
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Saccharin

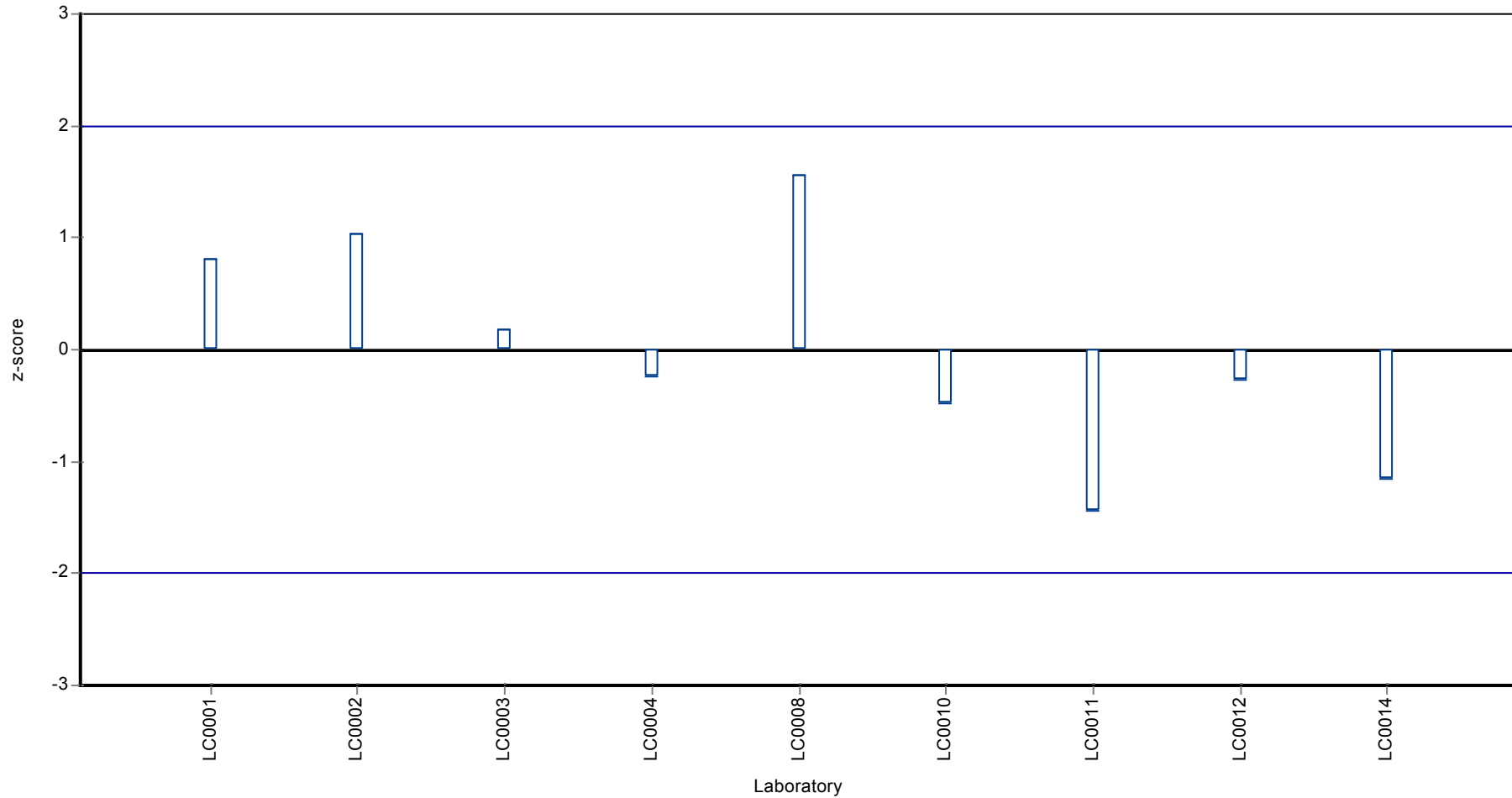
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Saccharin

**Z-score**



## Parameter oriented report

### AZ5 B

#### Saccharin

Unit	µg/l
Mean ± CI (99%)	12.9 ± 0.573
Minimum - Maximum	12.4 - 13.7
Control test value ± U	12.5 ± 1.88

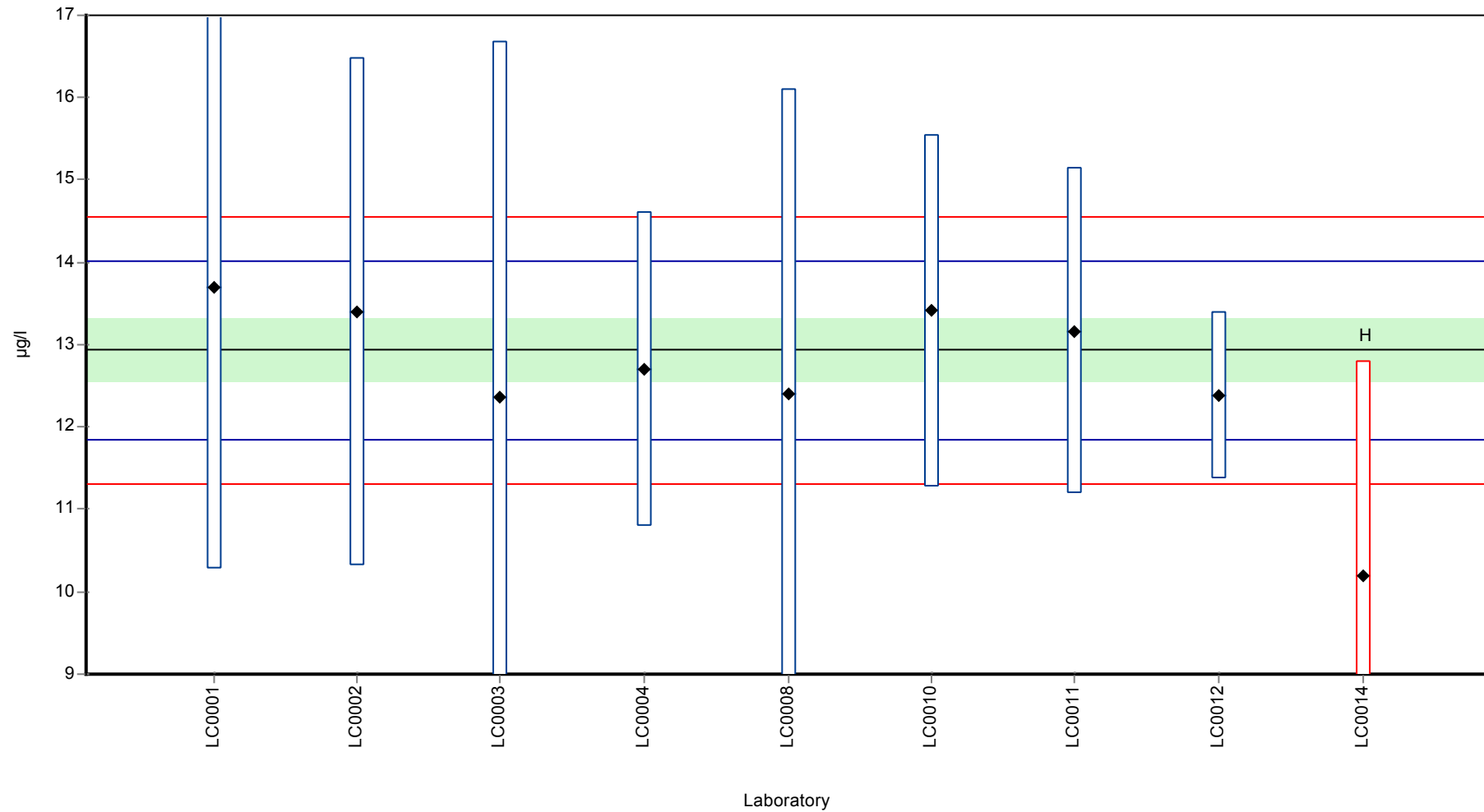
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	13.69	3.423	106	1.39	
LC0002	13.4	3.082	104	0.86	
LC0003	12.354	4.324	95.5	-1.08	
LC0004	12.7	1.91	98.2	-0.44	
LC0005	-	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	12.4	3.7	95.9	-0.99	
LC0009	-	-	-	-	
LC0010	13.408	2.1453	104	0.87	
LC0011	13.16	1.98	102	0.41	
LC0012	12.381	1.0226	95.7	-1.03	
LC0013	-	-	-	-	
LC0014	10.2	2.6	78.8	-5.06	H

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	12.6 ± 1.04	12.9 ± 0.573	µg/l
Minimum	10.2	12.4	µg/l
Maximum	13.7	13.7	µg/l
Standard deviation	1.04	0.541	µg/l
rel. Standard deviation	8.26	4.18	%
n	9	8	-

Graphical presentation of results

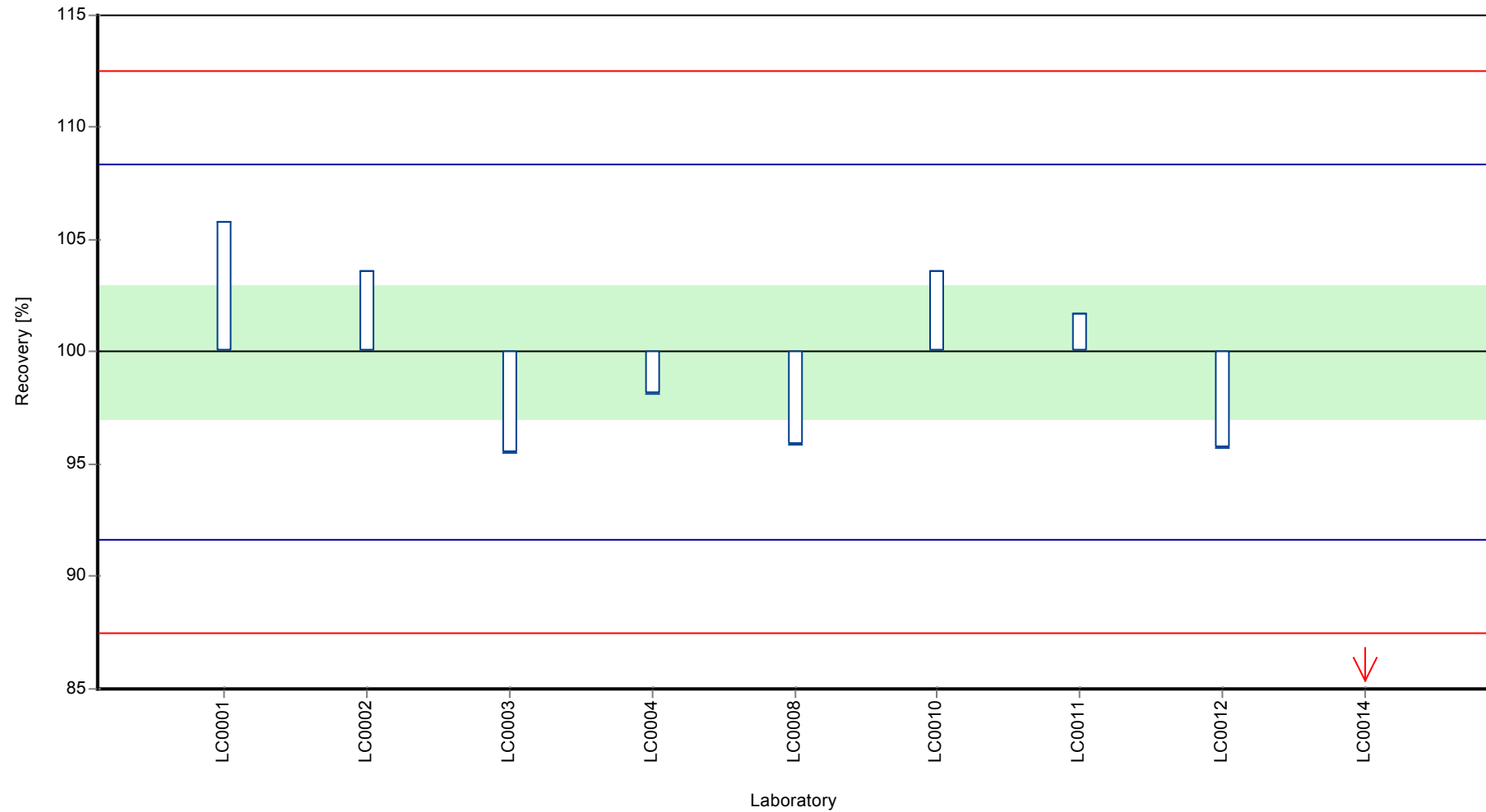
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Saccharin

**Recovery rate**

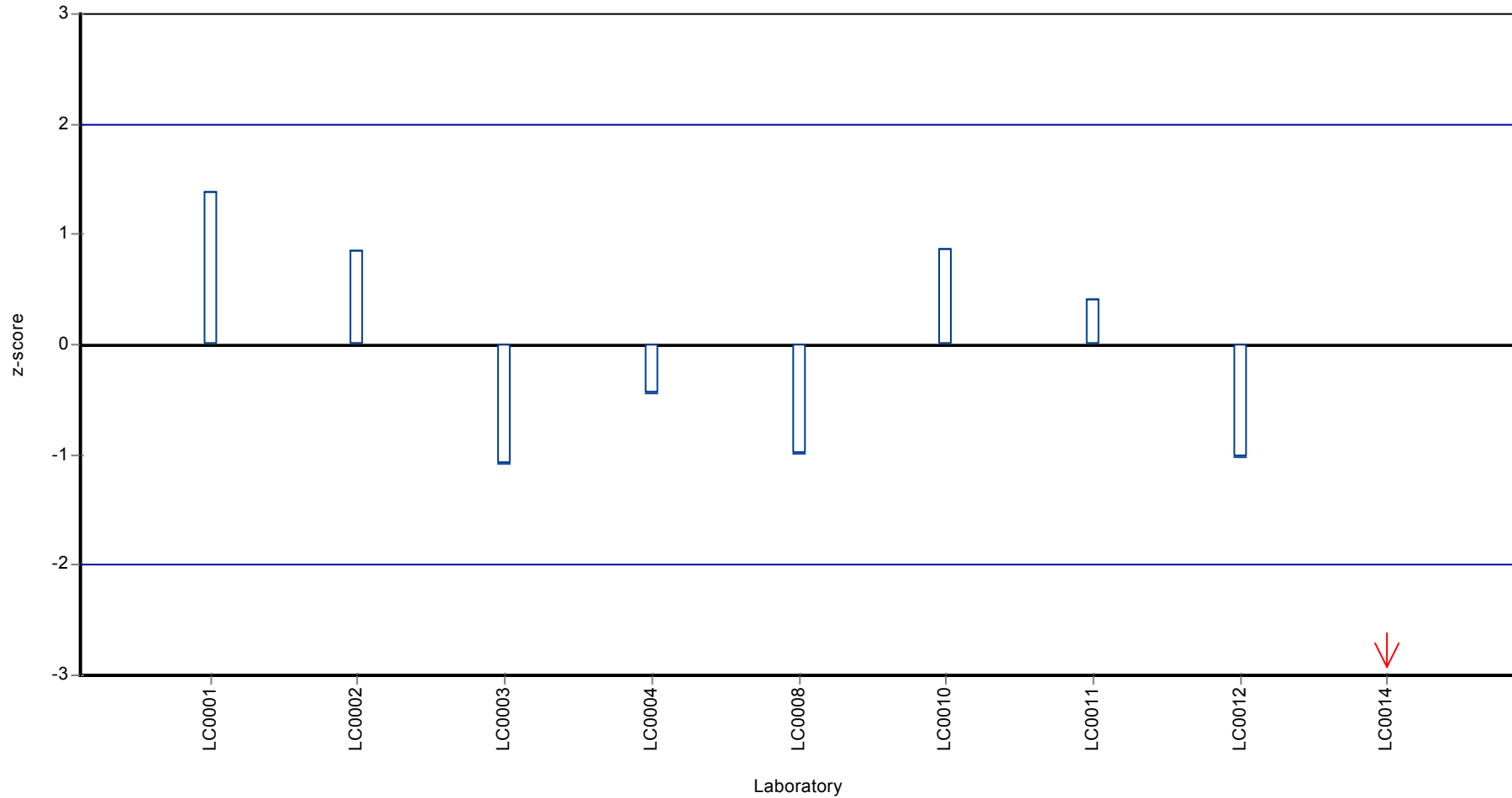




Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Saccharin

**Z-score**



## Parameter oriented report

### AZ5 A

#### Sotalol

Unit	µg/l
Mean ± CI (99%)	0.0981 ± 0.0142
Minimum - Maximum	0.072 - 0.115
Control test value ± U	0.0875 ± 0.0131

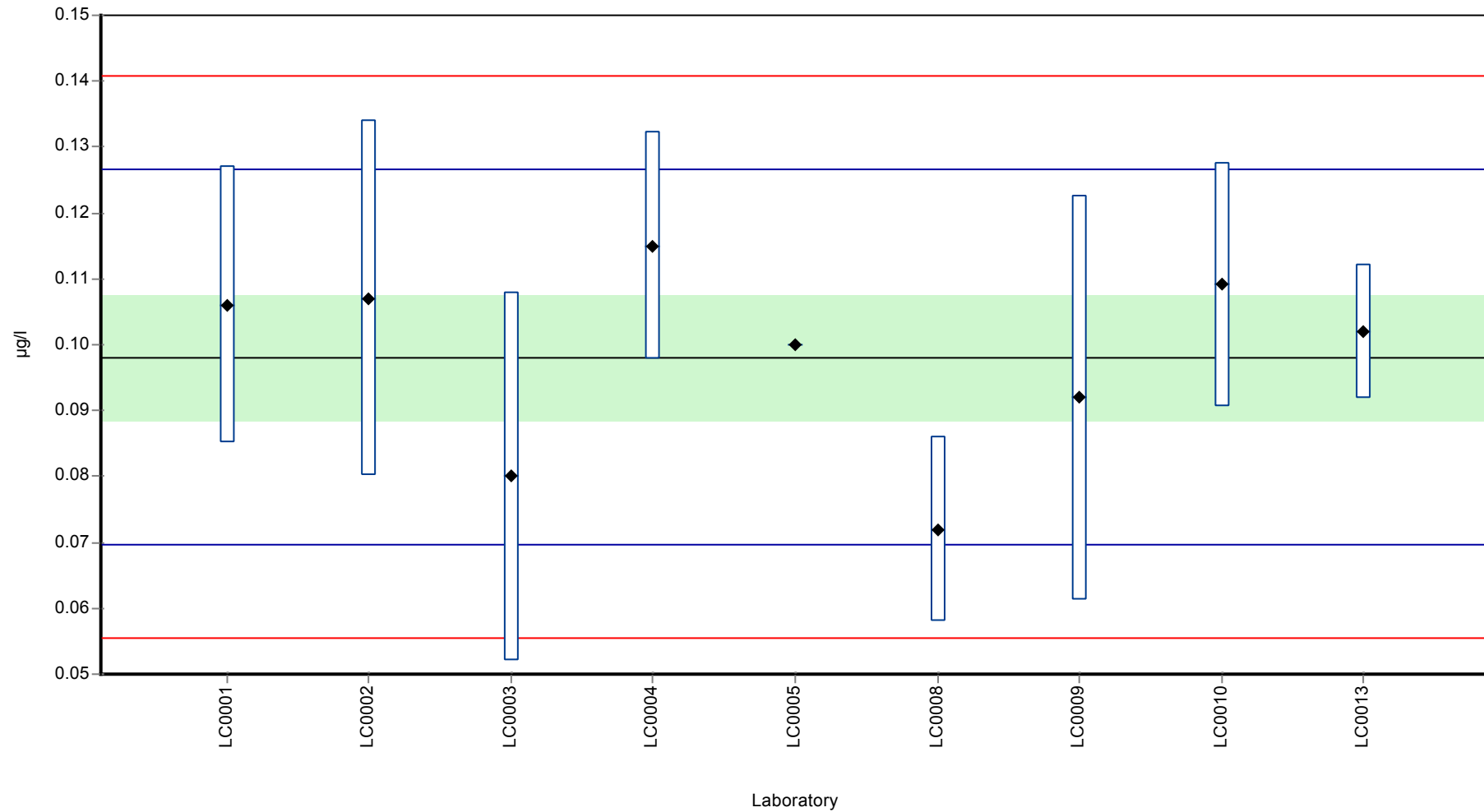
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.106	0.021	108	0.56	
LC0002	0.107	0.027	109	0.63	
LC0003	0.08	0.028	81.5	-1.28	
LC0004	0.115	0.0173	117	1.19	
LC0005	0.1	-	102	0.13	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	0.072	0.014	73.4	-1.84	
LC0009	0.092	0.0307	93.8	-0.43	
LC0010	0.1091	0.0186	111	0.77	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.1019	0.01019	104	0.27	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.0981 ± 0.0142	0.0981 ± 0.0142	µg/l
Minimum	0.072	0.072	µg/l
Maximum	0.115	0.115	µg/l
Standard deviation	0.0142	0.0142	µg/l
rel. Standard deviation	14.5	14.5	%
n	9	9	-

Graphical presentation of results

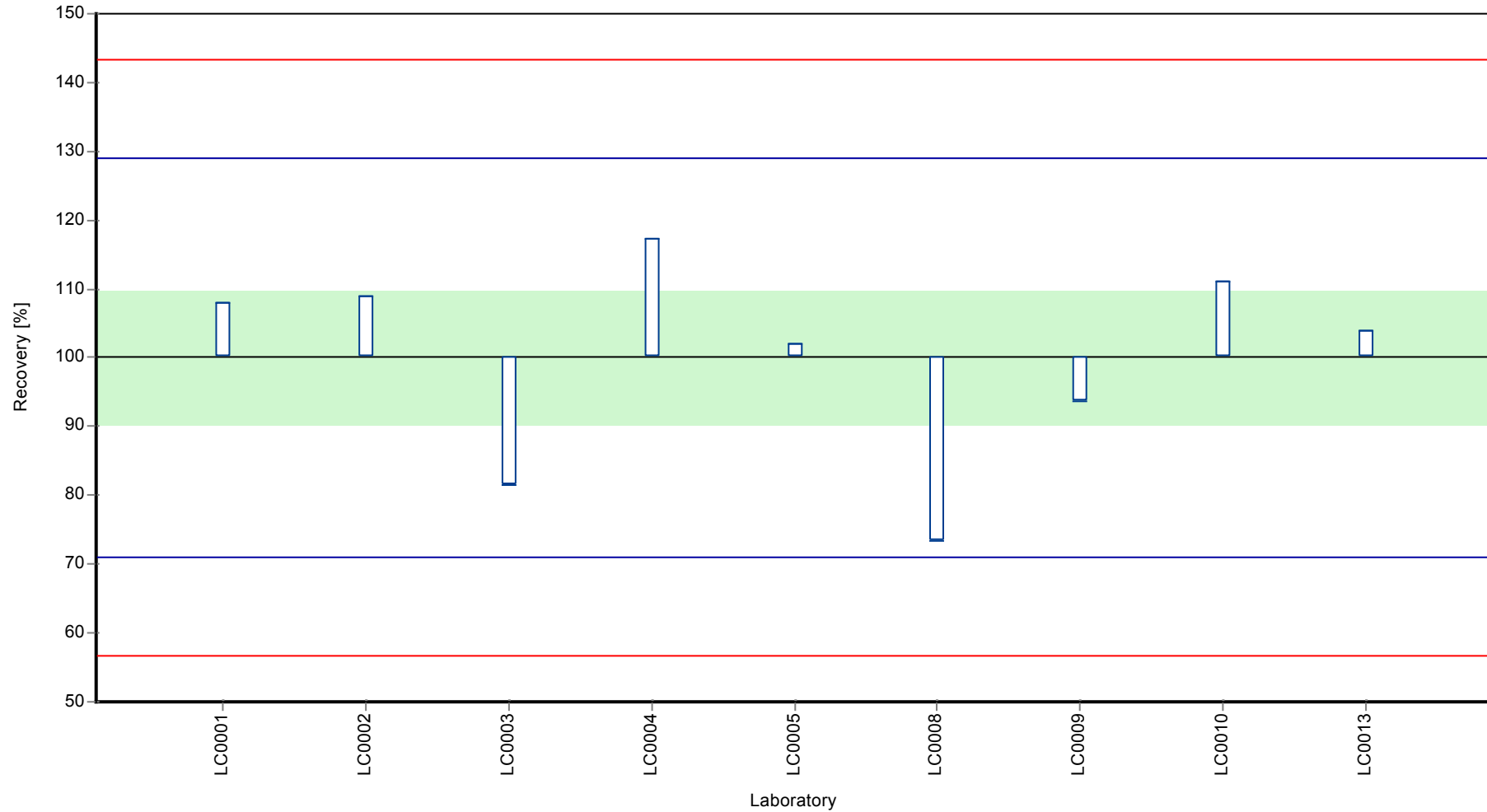
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Sotalol

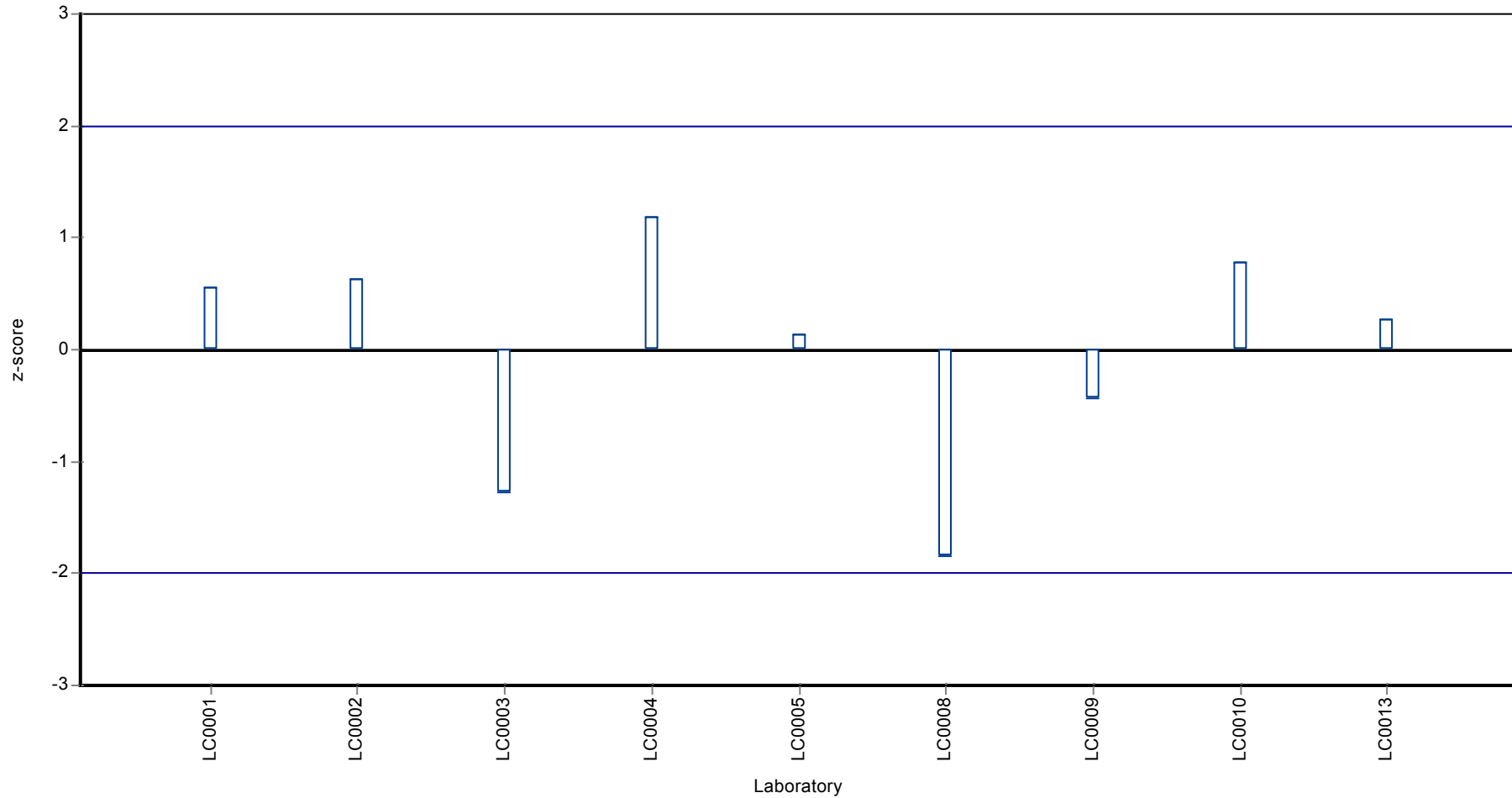
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Sotalol

**Z-score**



## Parameter oriented report

### AZ5 B

#### Sotalol

Unit	µg/l
Mean ± CI (99%)	0.236 ± 0.0351
Minimum - Maximum	0.175 - 0.298
Control test value ± U	0.277 ± 0.0415

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.218	0.044	92.5	-0.5	
LC0002	0.242	0.061	103	0.18	
LC0003	0.258	0.09	109	0.64	
LC0004	0.298	0.0447	126	1.78	
LC0005	0.208	-	88.3	-0.79	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	0.175	0.035	74.3	-1.73	
LC0009	0.222	0.0741	94.2	-0.39	
LC0010	0.2556	0.0435	108	0.57	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.2444	0.022	104	0.25	
LC0014	-	-	-	-	

#### Characteristics of parameter

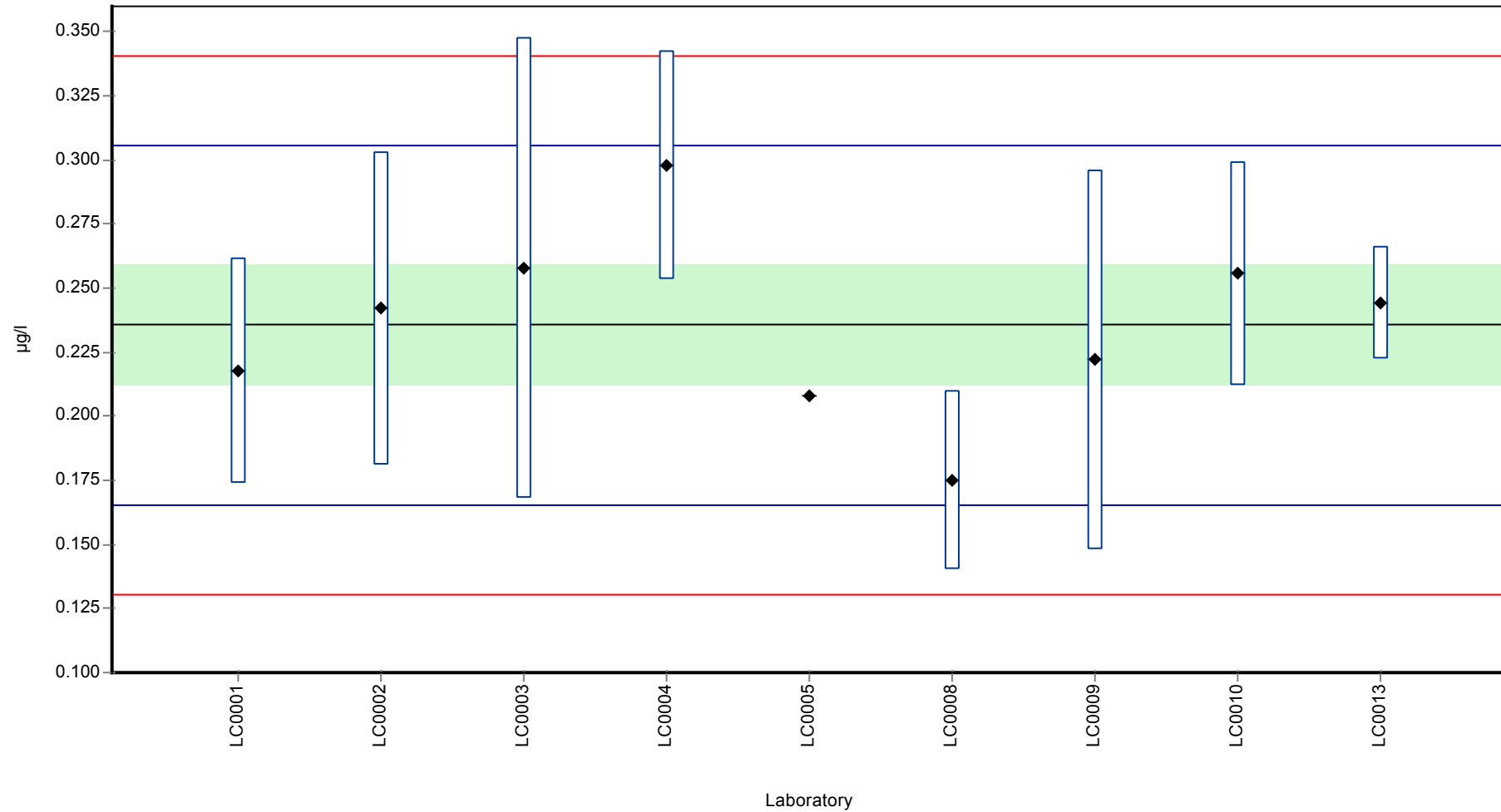
	all results	without outliers	Unit
Mean ± CI (99%)	0.236 ± 0.0351	0.236 ± 0.0351	µg/l
Minimum	0.175	0.175	µg/l
Maximum	0.298	0.298	µg/l
Standard deviation	0.0351	0.0351	µg/l
rel. Standard deviation	14.9	14.9	%
n	9	9	-

Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Sotalol

**Graphical presentation of results**

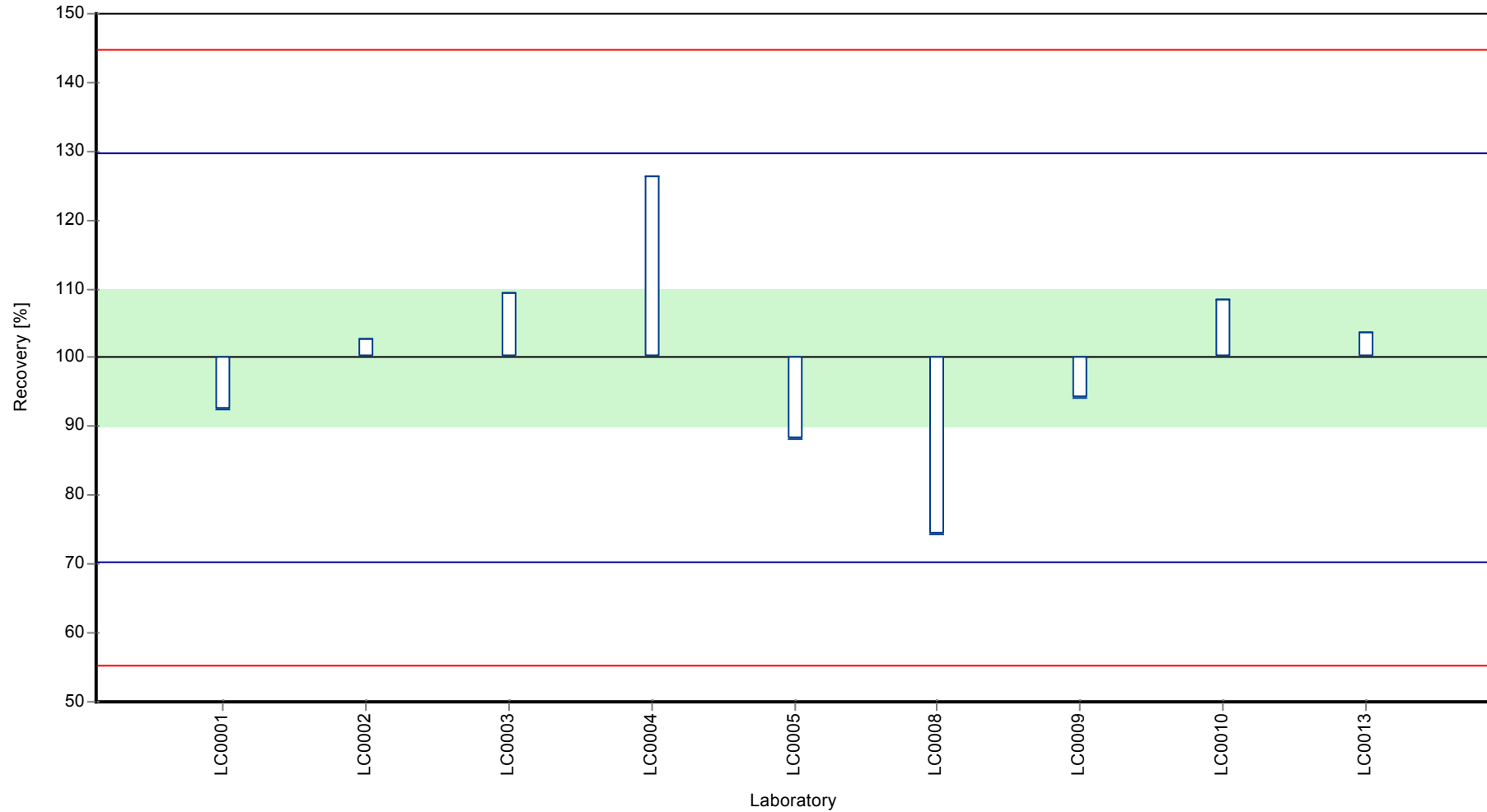
**Results**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Sotalol

**Recovery rate**

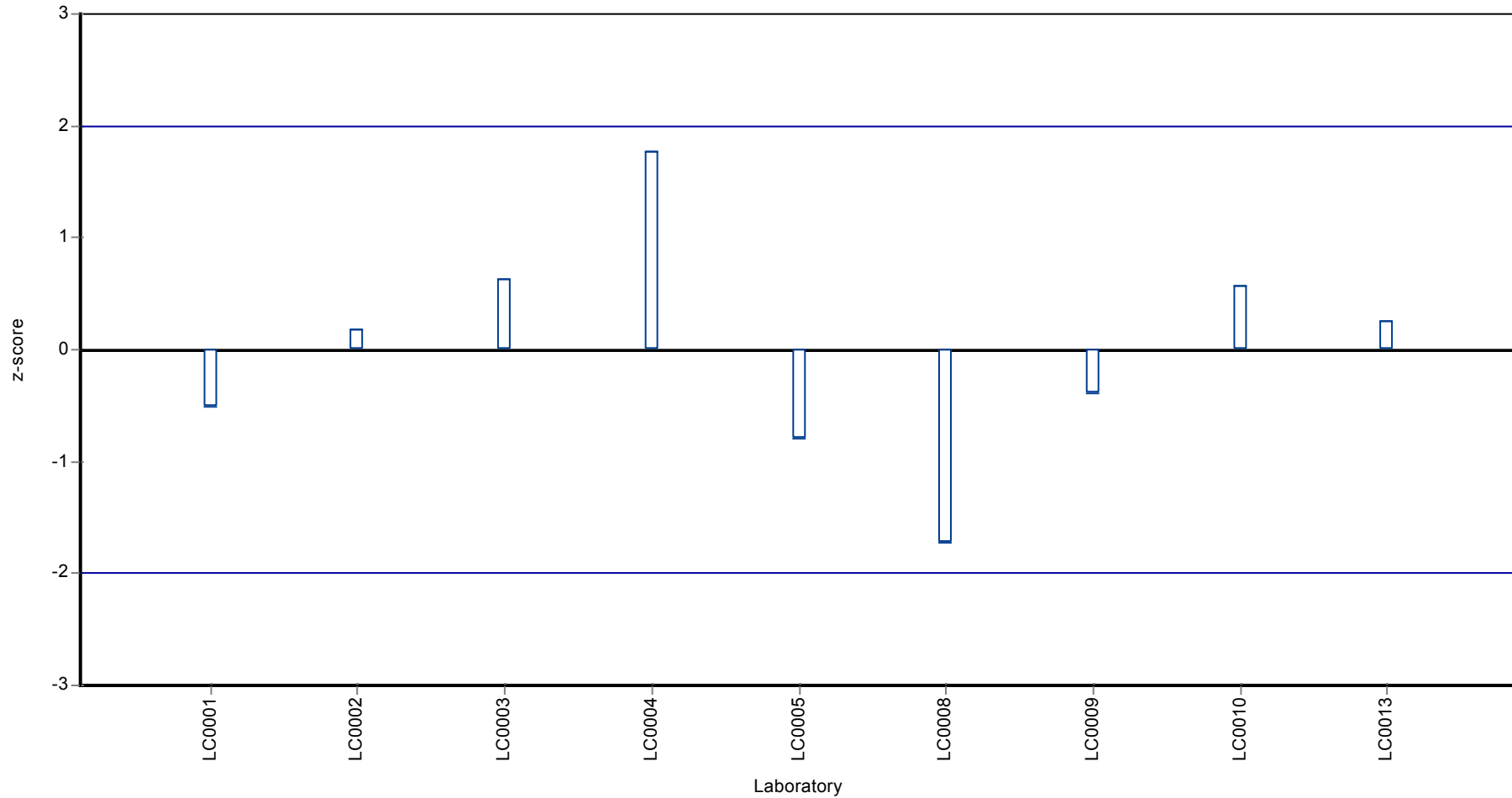




Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Sotalol

**Z-score**



## Parameter oriented report

### AZ5 A

#### Sucralose

Unit	µg/l
Mean ± CI (99%)	0.395 ± 0.15
Minimum - Maximum	0.201 - 0.55
Control test value ± U	0.340 ± 0.0511

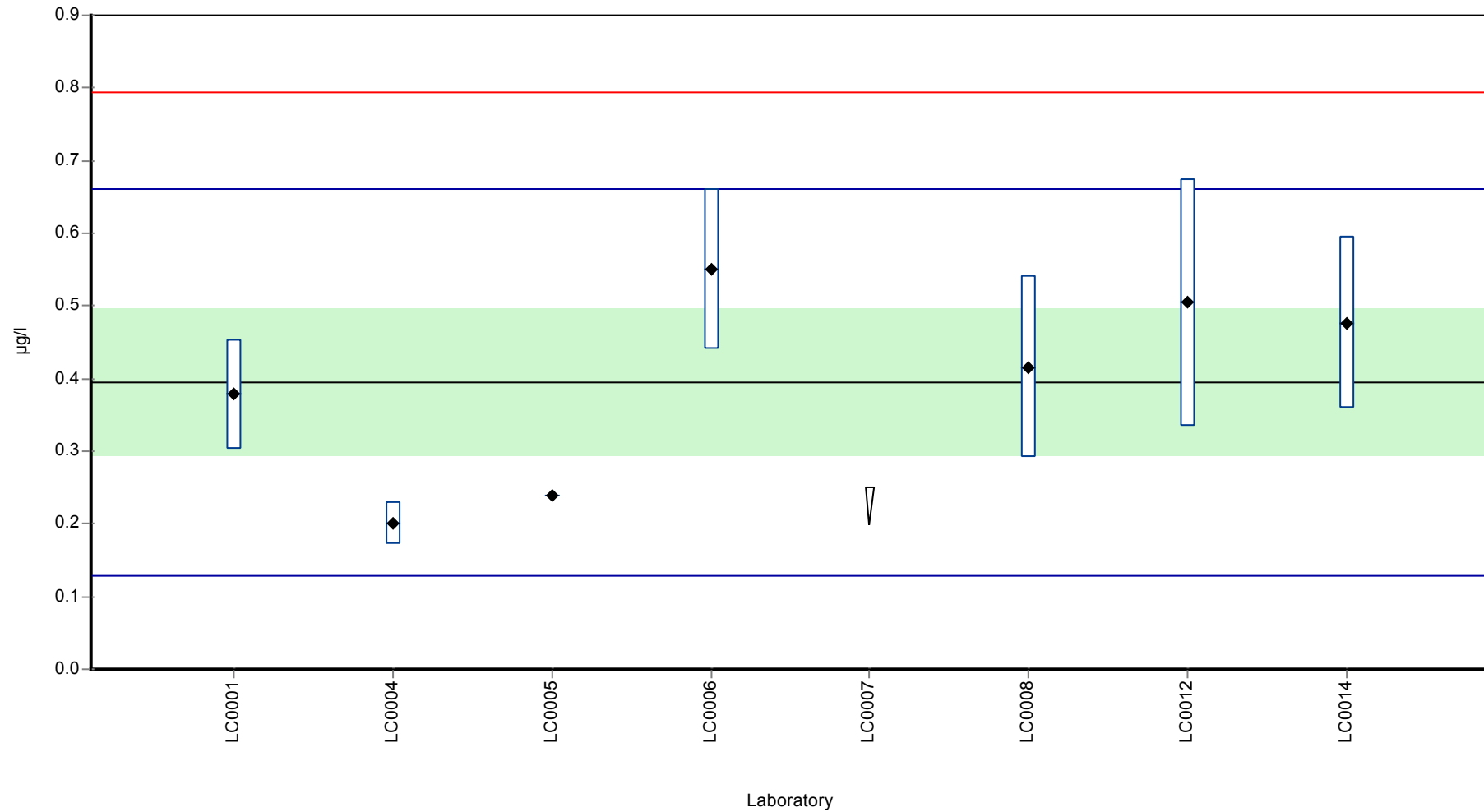
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.378	0.076	95.7	-0.13	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	0.201	0.0302	50.9	-1.46	
LC0005	0.238	-	60.3	-1.18	
LC0006	0.55	0.11	139	1.17	
LC0007	< 0.25 (LOQ)	-	-	-	
LC0008	0.416	0.125	105	0.16	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	0.5042	0.1693	128	0.82	
LC0013	-	-	-	-	
LC0014	0.477	0.119	121	0.62	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.395 ± 0.15	0.395 ± 0.15	µg/l
Minimum	0.201	0.201	µg/l
Maximum	0.55	0.55	µg/l
Standard deviation	0.133	0.133	µg/l
rel. Standard deviation	33.6	33.6	%
n	7	7	-

Graphical presentation of results

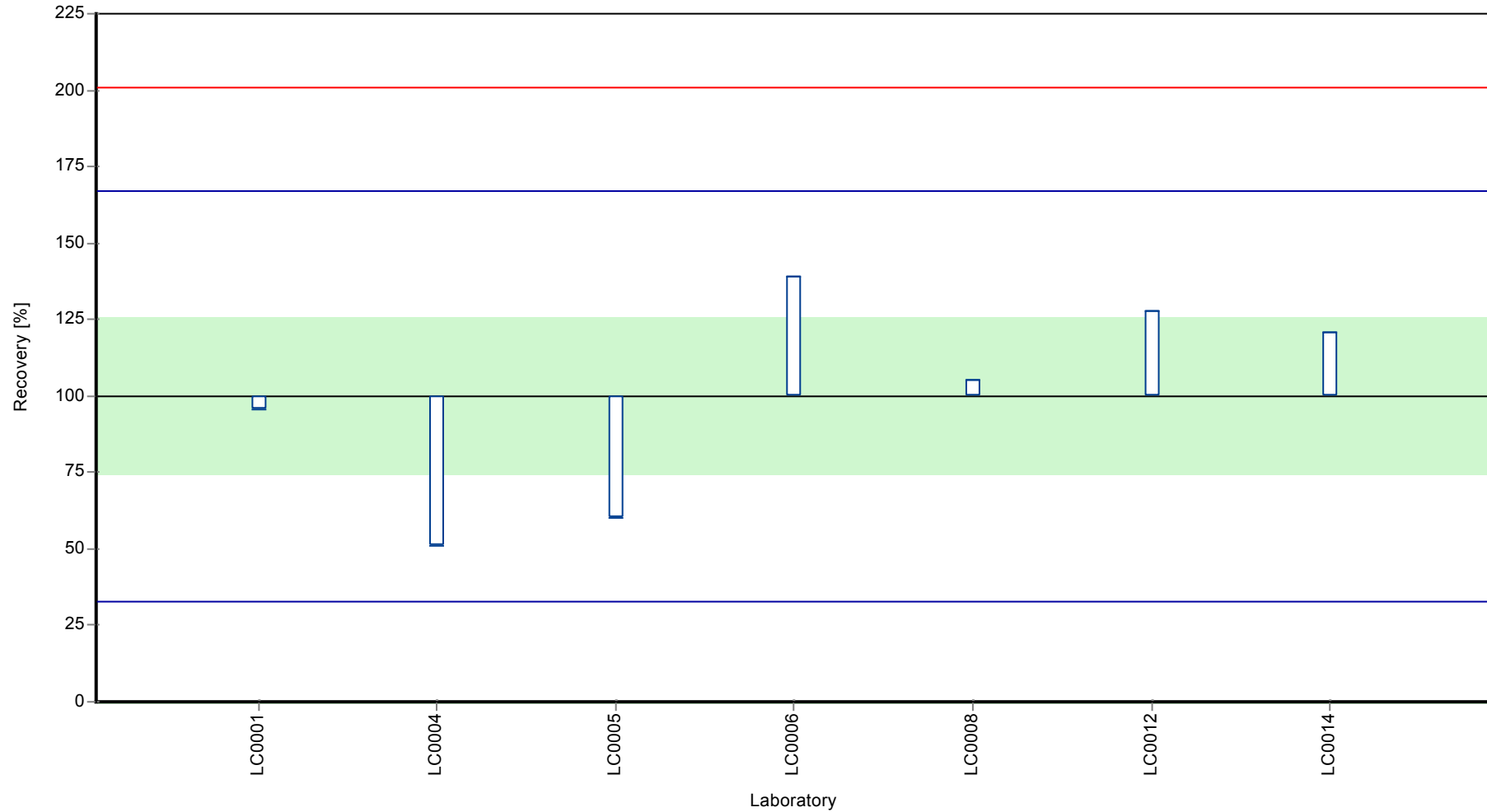
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Sucralose

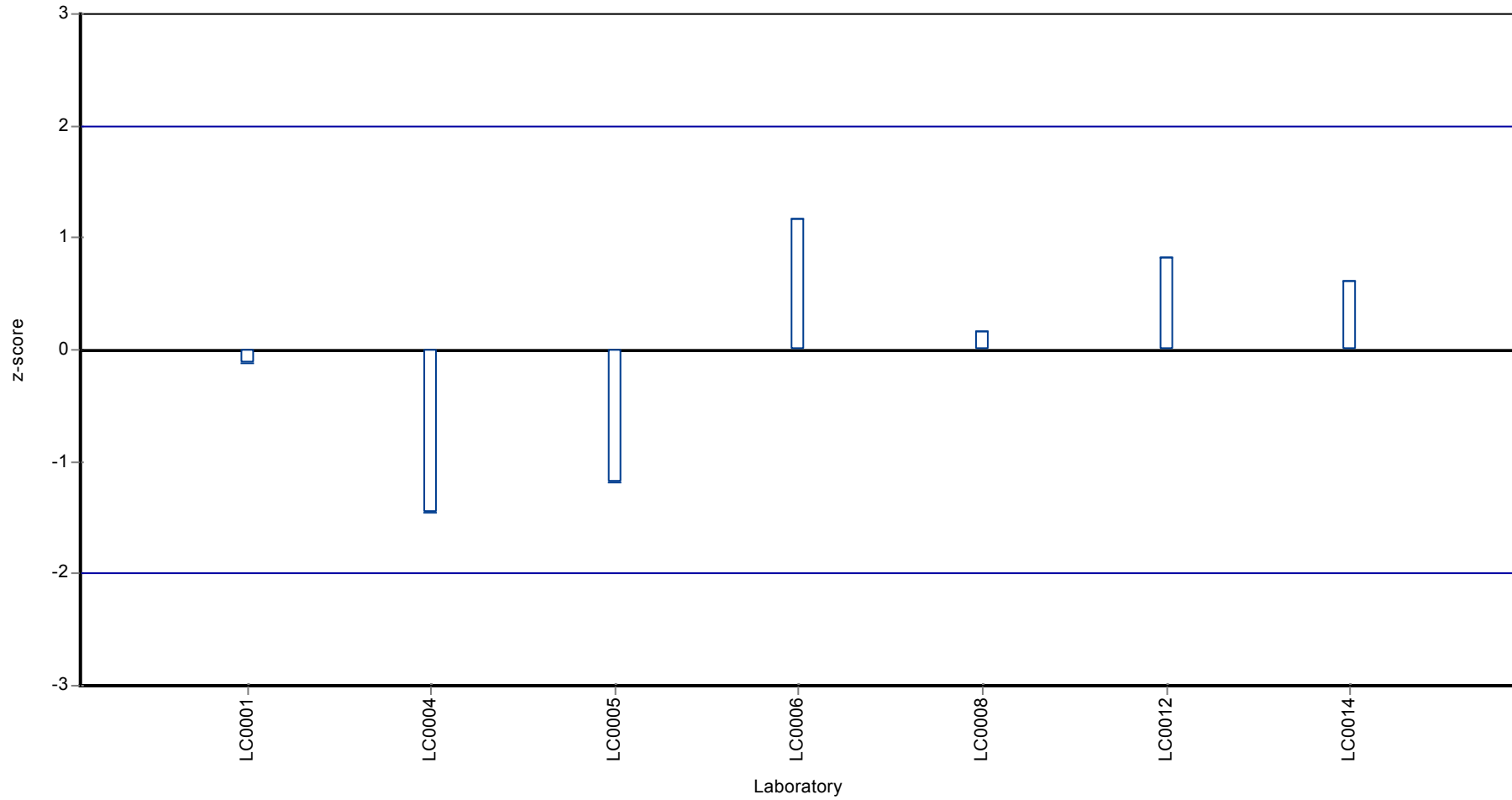
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Sucralose

**Z-score**



## Parameter oriented report

### AZ5 B

#### Sucralose

Unit	µg/l
Mean ± CI (99%)	8.28 ± 2.08
Minimum - Maximum	5.7 - 11.5
Control test value ± U	7.39 ± 1.11

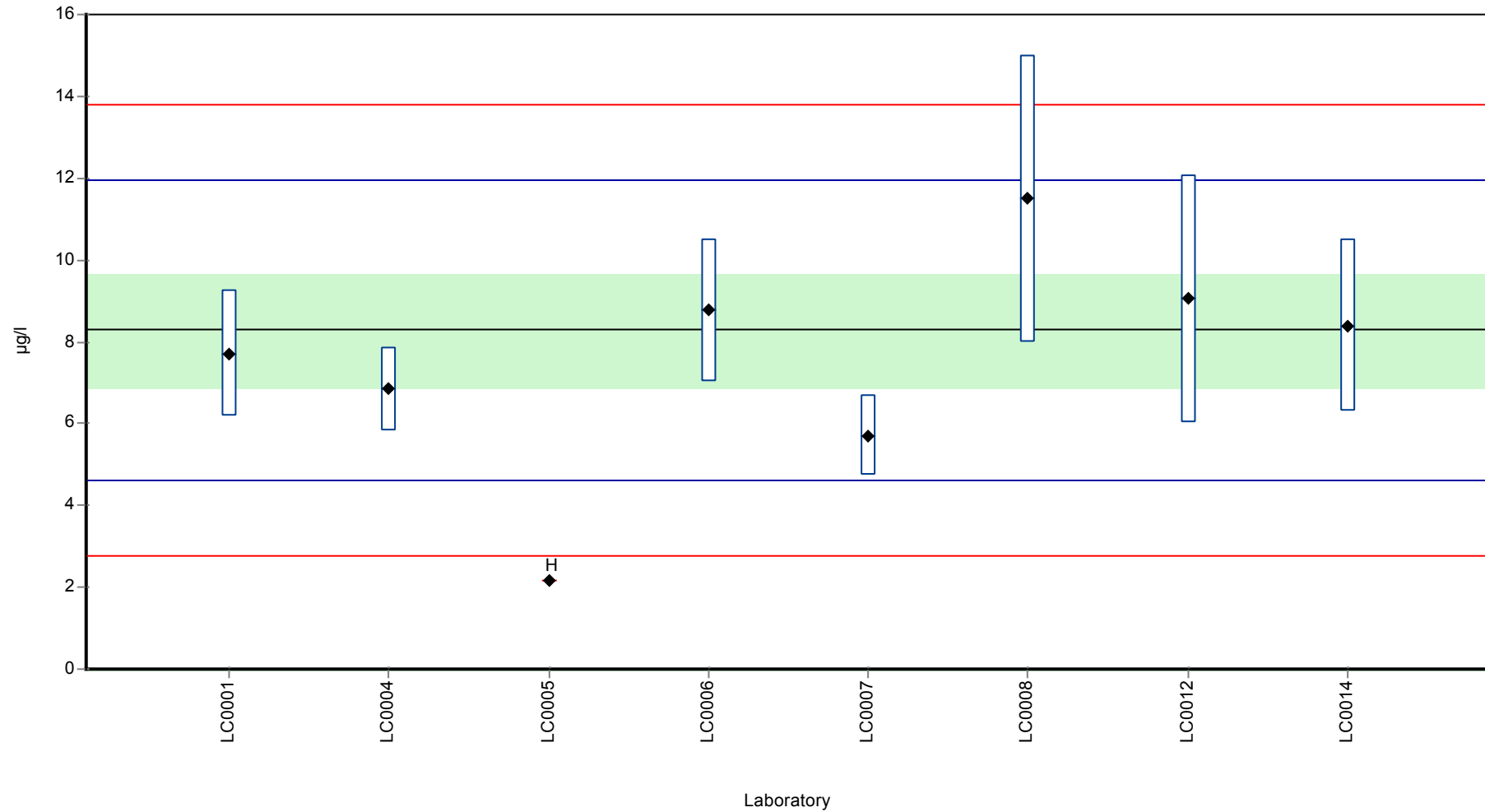
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	7.714	1.543	93.1	-0.31	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	6.85	1.028	82.7	-0.78	
LC0005	2.17	-	26.2	-3.33	H
LC0006	8.77	1.75	106	0.27	
LC0007	5.7	0.98	68.8	-1.41	
LC0008	11.5	3.5	139	1.75	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	9.0458	3.0376	109	0.42	
LC0013	-	-	-	-	
LC0014	8.4	2.1	101	0.06	

#### Characteristics of parameter

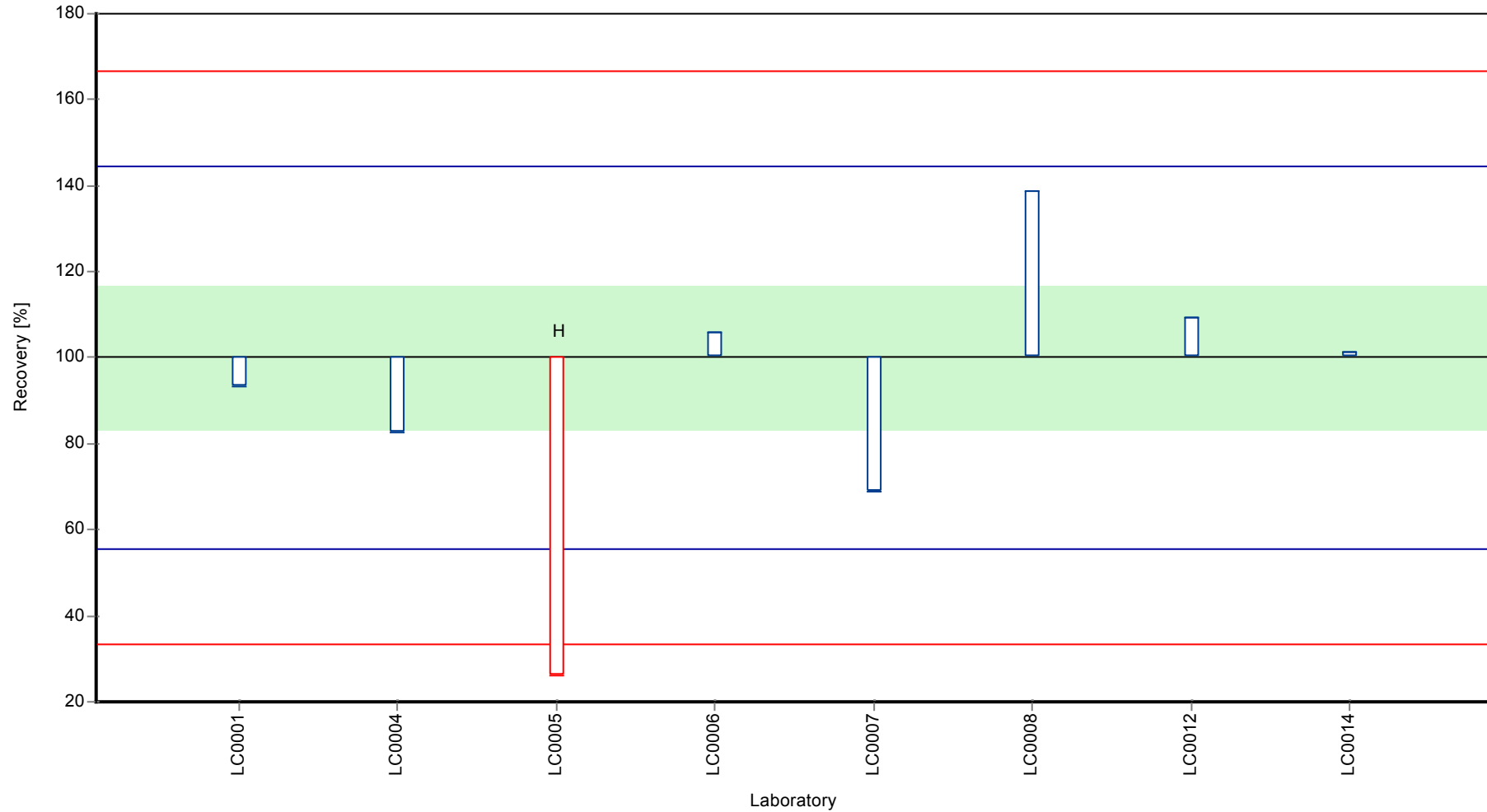
	all results	without outliers	Unit
Mean ± CI (99%)	7.52 ± 2.92	8.28 ± 2.08	µg/l
Minimum	2.17	5.7	µg/l
Maximum	11.5	11.5	µg/l
Standard deviation	2.75	1.84	µg/l
rel. Standard deviation	36.6	22.2	%
n	8	7	-

Graphical presentation of results

Results

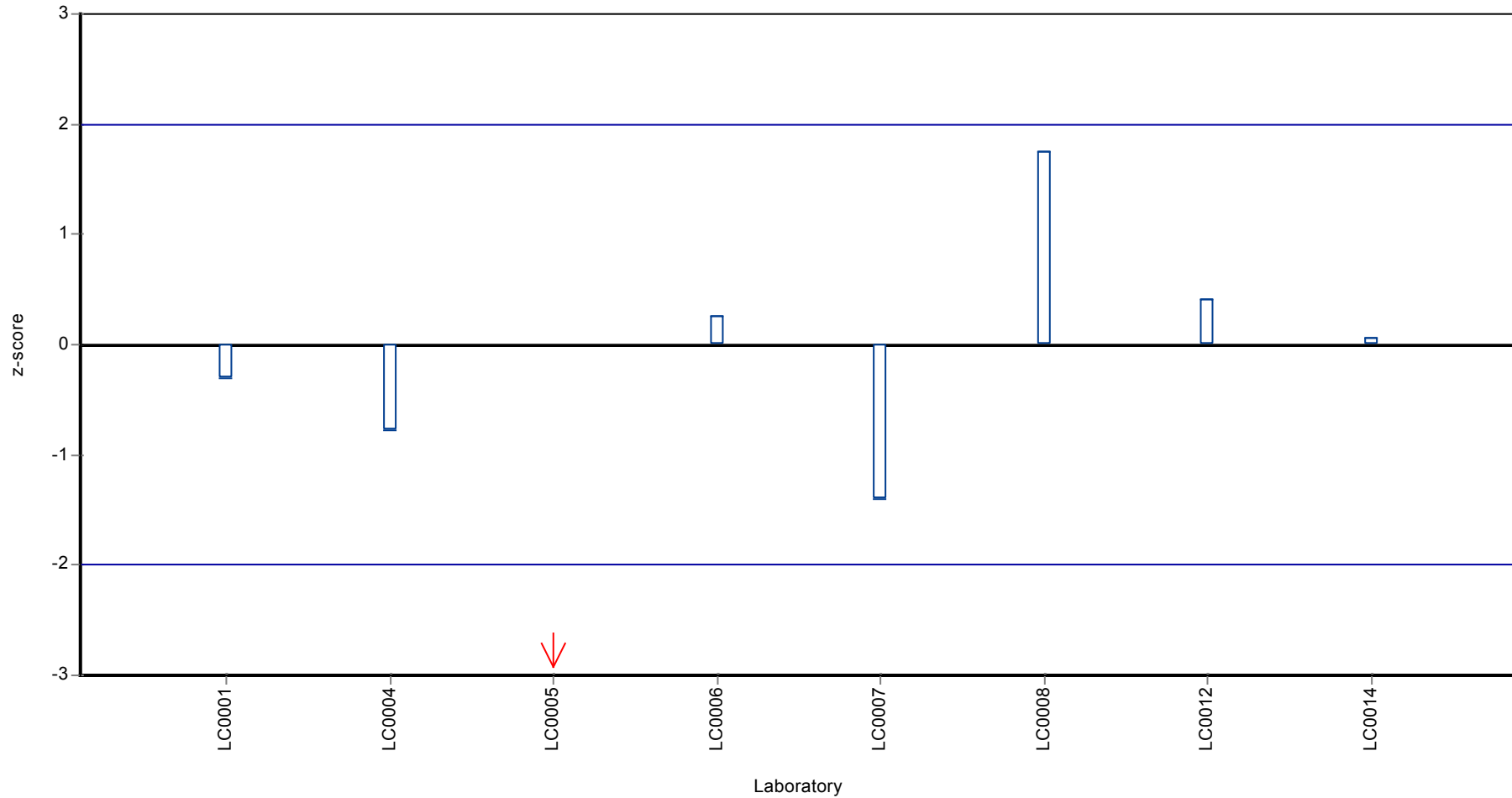


**Recovery rate**





**Z-score**



## Parameter oriented report

### AZ5 A

#### Sulfamethoxazole

Unit	µg/l
Mean ± CI (99%)	0.0839 ± 0.00731
Minimum - Maximum	0.067 - 0.094
Control test value ± U	0.0853 ± 0.0128

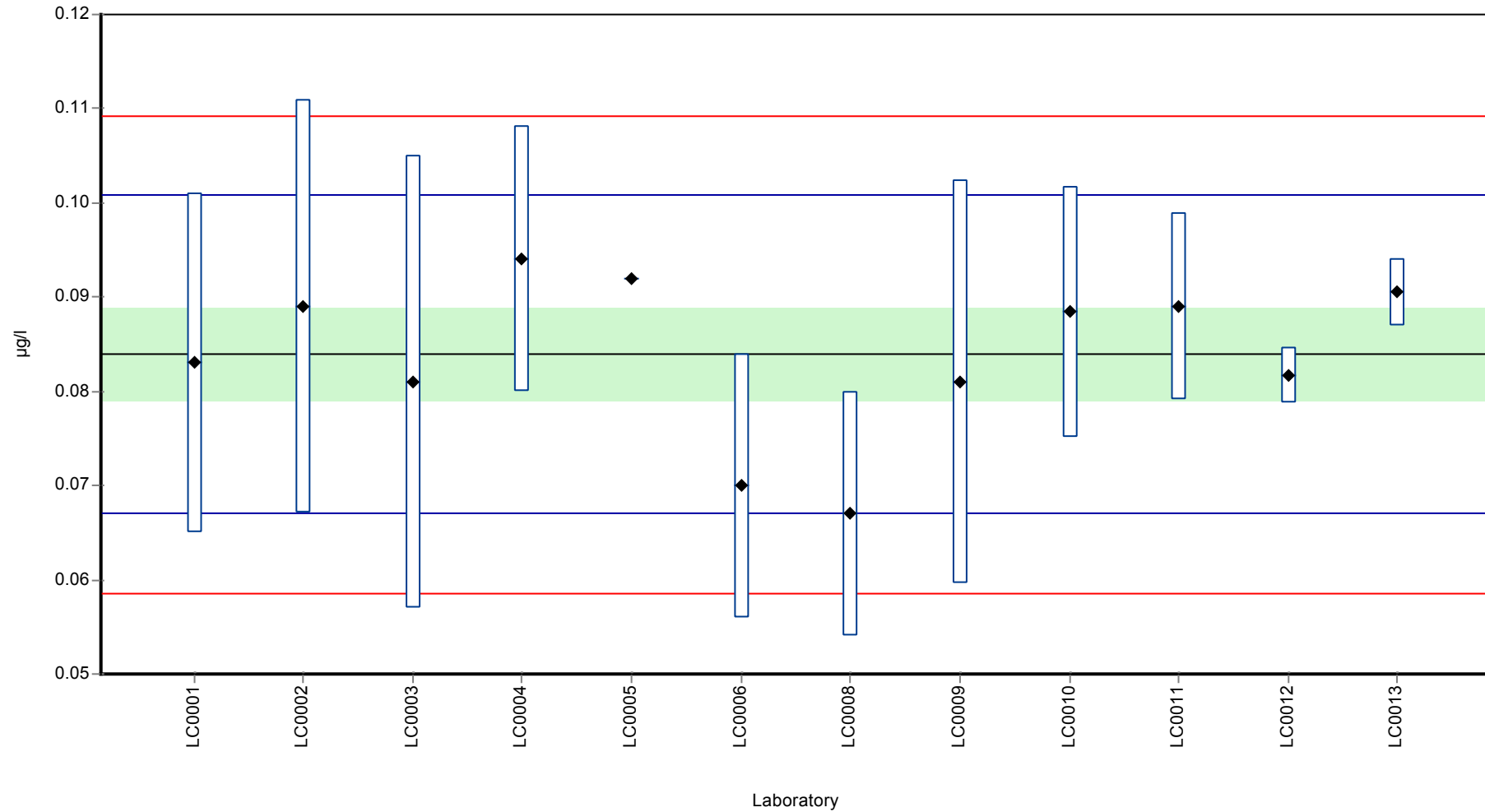
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.083	0.018	98.9	-0.1	
LC0002	0.089	0.022	106	0.61	
LC0003	0.081	0.024	96.6	-0.34	
LC0004	0.094	0.0141	112	1.2	
LC0005	0.092	-	110	0.96	
LC0006	0.07	0.014	83.4	-1.64	
LC0007	-	-	-	-	
LC0008	0.067	0.013	79.9	-2	
LC0009	0.081	0.0215	96.6	-0.34	
LC0010	0.0884	0.0133	105	0.54	
LC0011	0.089	0.01	106	0.61	
LC0012	0.0817	0.0029	97.4	-0.26	
LC0013	0.0905	0.00362	108	0.78	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.0839 ± 0.00731	0.0839 ± 0.00731	µg/l
Minimum	0.067	0.067	µg/l
Maximum	0.094	0.094	µg/l
Standard deviation	0.00845	0.00845	µg/l
rel. Standard deviation	10.1	10.1	%
n	12	12	-

Graphical presentation of results

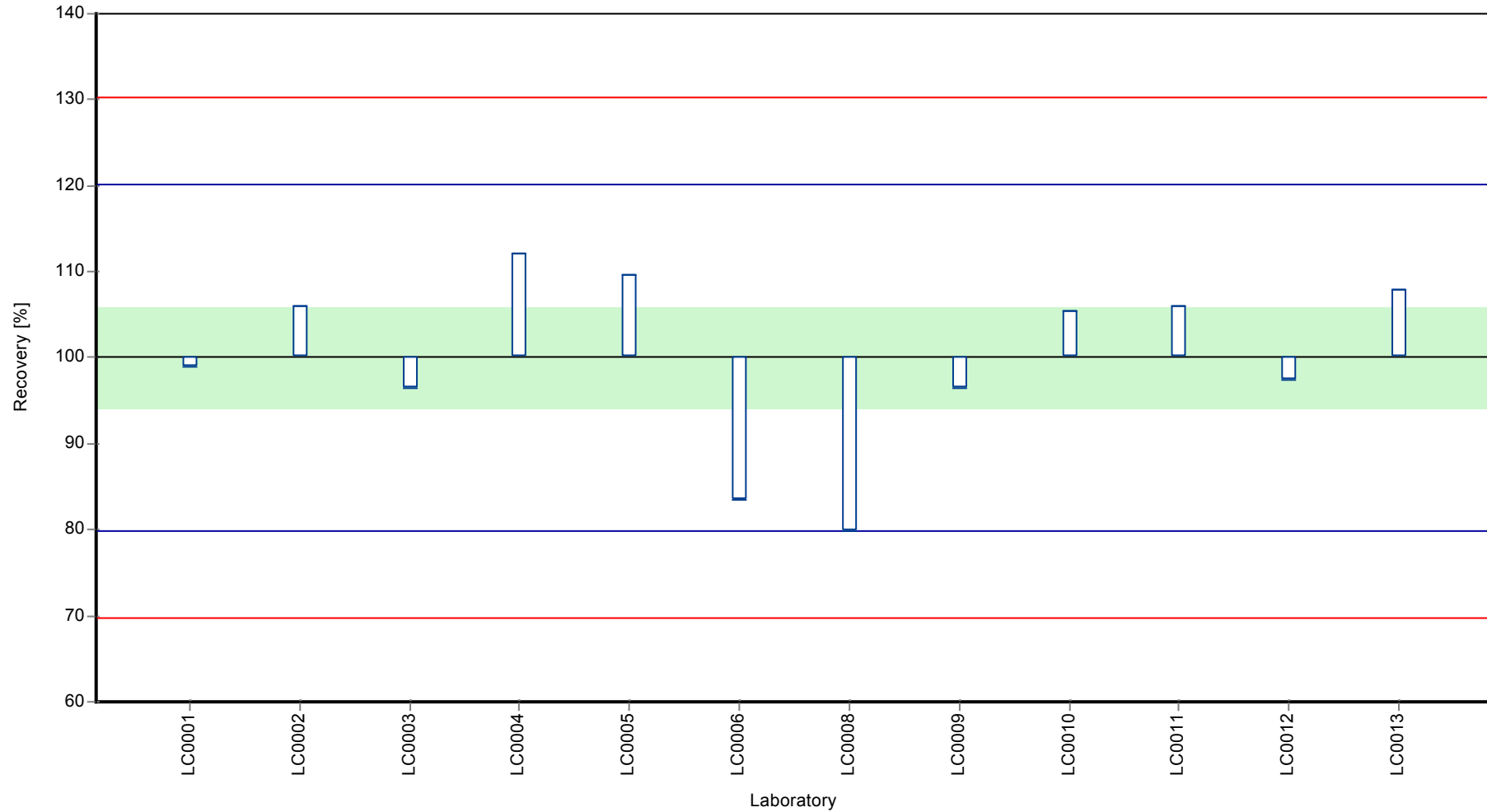
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Sulfamethoxazole

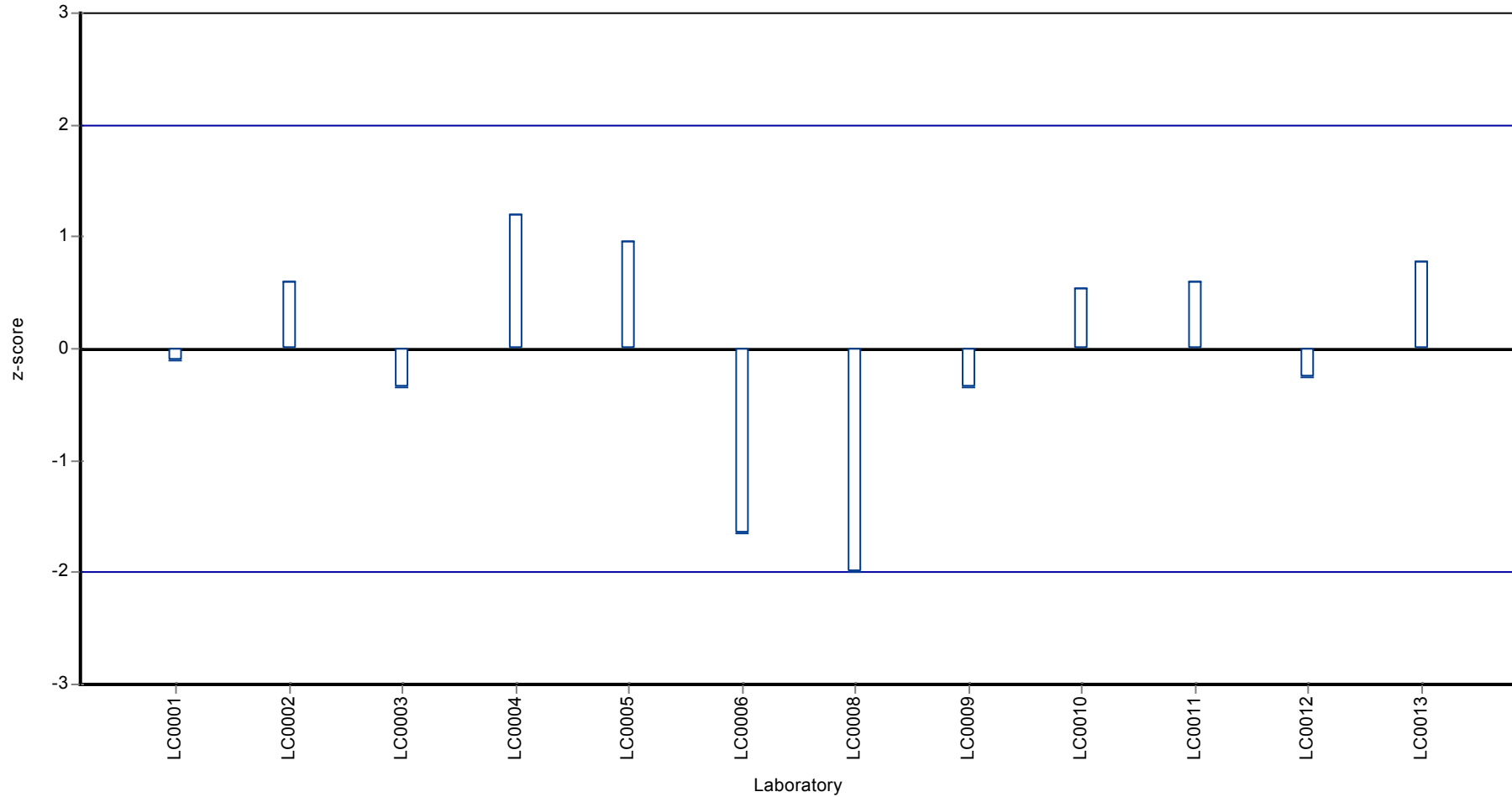
**Recovery rate**



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5A, Parameter: Sulfamethoxazole

**Z-score**



## Parameter oriented report

### AZ5 B

#### Sulfamethoxazole

Unit	µg/l
Mean ± CI (99%)	0.148 ± 0.0116
Minimum - Maximum	0.131 - 0.18
Control test value ± U	0.165 ± 0.0248

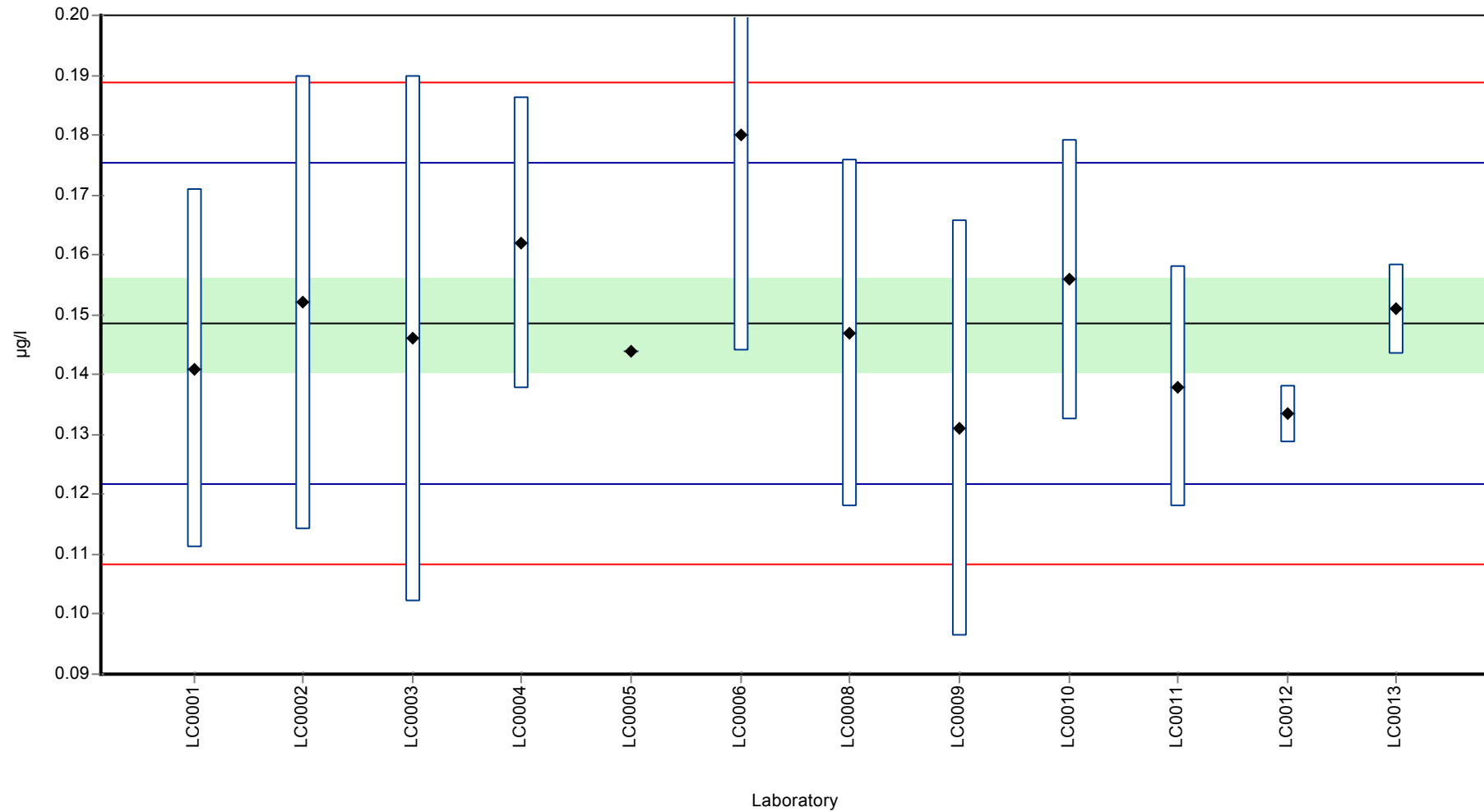
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.141	0.03	95	-0.56	
LC0002	0.152	0.038	102	0.27	
LC0003	0.146	0.044	98.4	-0.18	
LC0004	0.162	0.0243	109	1.01	
LC0005	0.144	-	97	-0.33	
LC0006	0.18	0.036	121	2.35	
LC0007	-	-	-	-	
LC0008	0.147	0.029	99	-0.11	
LC0009	0.131	0.0347	88.3	-1.3	
LC0010	0.1559	0.0234	105	0.56	
LC0011	0.138	0.02	93	-0.78	
LC0012	0.1334	0.0048	89.9	-1.12	
LC0013	0.1509	0.00755	102	0.18	
LC0014	-	-	-	-	

#### Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0.148 ± 0.0116	0.148 ± 0.0116	µg/l
Minimum	0.131	0.131	µg/l
Maximum	0.18	0.18	µg/l
Standard deviation	0.0134	0.0134	µg/l
rel. Standard deviation	9.03	9.03	%
n	12	12	-

Graphical presentation of results

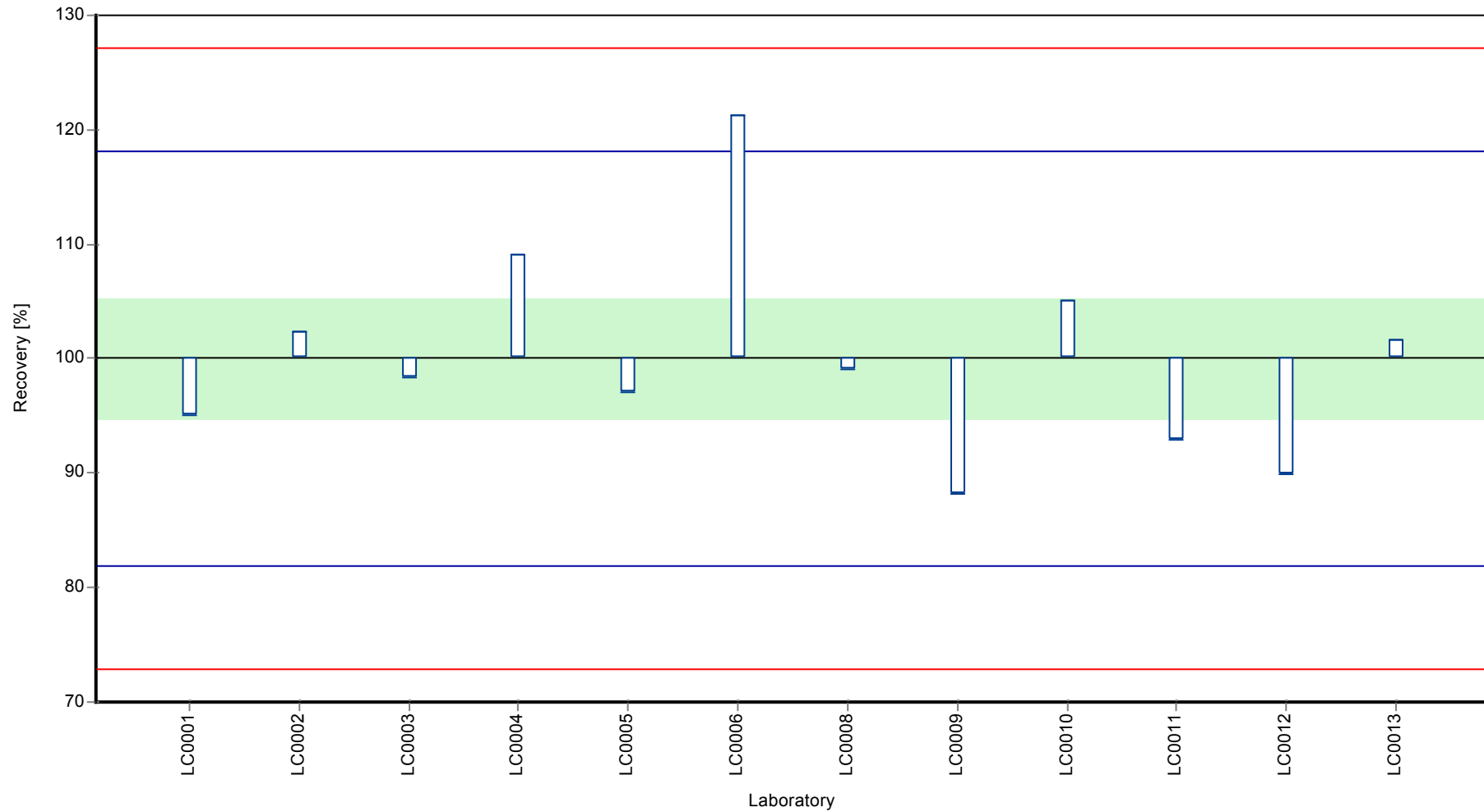
Results



Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Sulfamethoxazole

**Recovery rate**

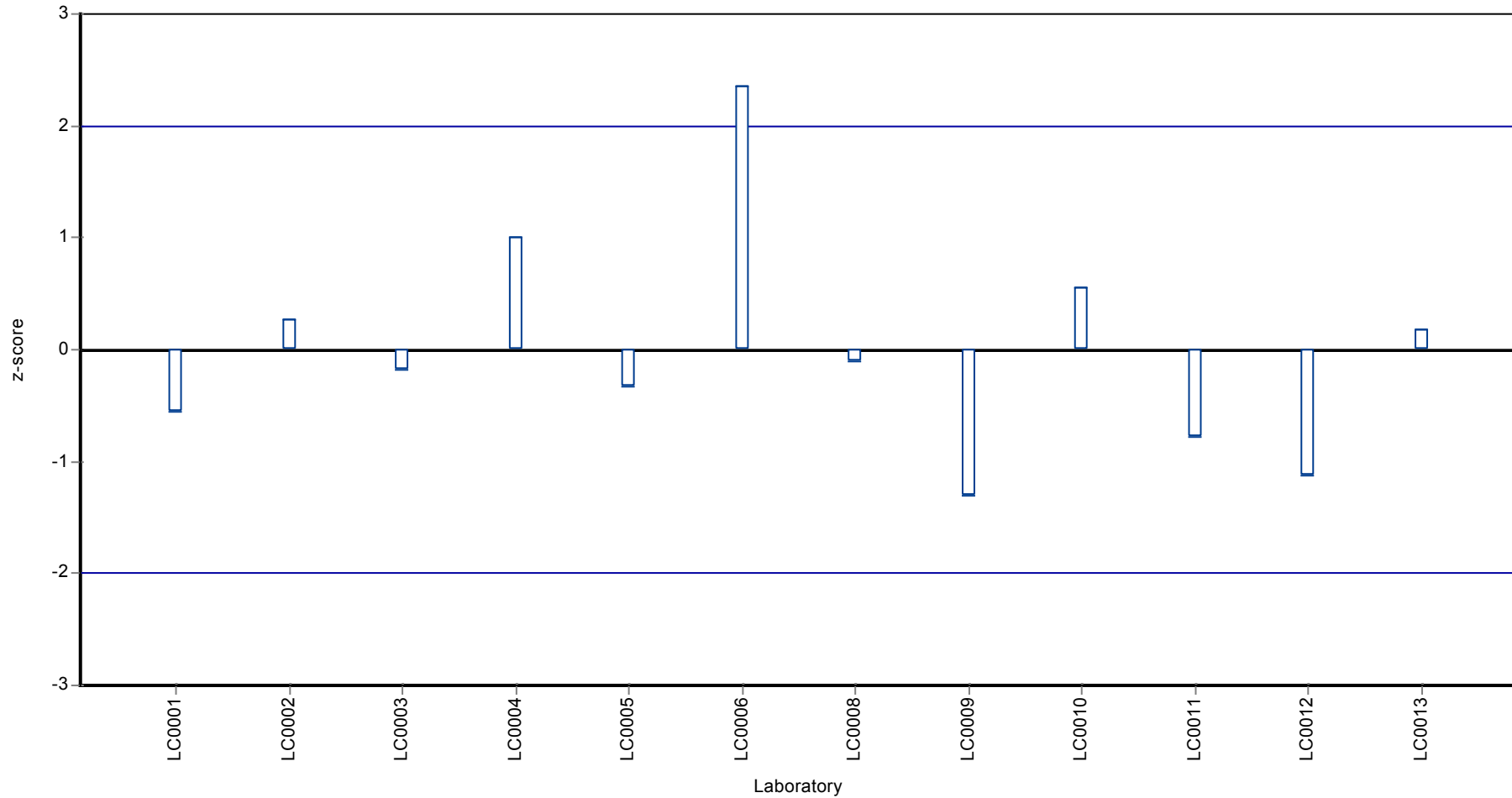




Parameter oriented report Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners - AZ5

Sample: AZ5B, Parameter: Sulfamethoxazole

**Z-score**



## 8 Laboratory oriented report

The laboratory oriented report is sorted by laboratory code.

The following results were achieved:

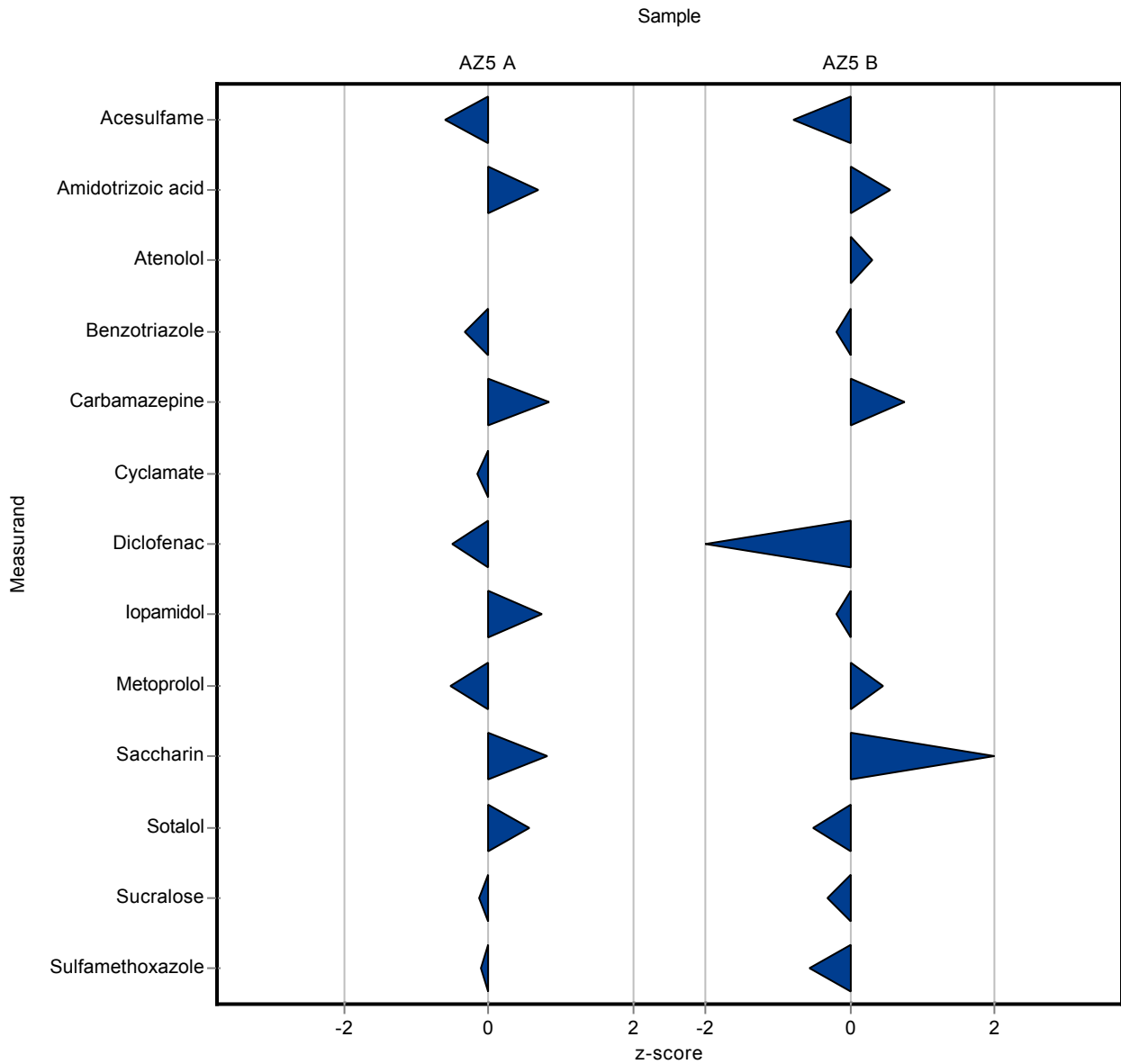
Sample: AZ5A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.251	0.083	0.0501	89.2	-0.60
Amidotrizoic acid	µg/l	0.27	± 0.0556	0.304	0.082	0.0491	112	0.68
Atenolol	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.254	0.033	0.0181	97.8	-0.32
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.097	0.021	0.00883	108	0.83
Cyclamate	µg/l	0.0672	± 0.0141	0.065	0.018	0.0141	96.7	-0.16
Diazepam	µg/l	-	± -	0.135	0.043	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.128	0.037	0.0302	89.6	-0.49
Ibuprofen	µg/l	-	± -	0.012	0.001	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	0.328	0.082	0.0465	112	0.74
Metoprolol	µg/l	0.109	± 0.00791	0.105	0.024	0.00746	96.5	-0.52
Saccharin	µg/l	0.128	± 0.0209	0.145	0.036	0.0209	113	0.80
Sotalol	µg/l	0.0981	± 0.0142	0.106	0.021	0.0142	108	0.56
Sucralose	µg/l	0.395	± 0.15	0.378	0.076	0.133	95.7	-0.13
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.083	0.018	0.00845	98.9	-0.10

Sample: AZ5B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	7.787	2.57	1.53	86.6	-0.79
Amidotrizoic acid	µg/l	1.06	± 0.297	1.195	0.323	0.243	113	0.55
Atenolol	µg/l	0.537	± 0.153	0.577	0.081	0.135	107	0.29
Benzotriazole	µg/l	8.02	± 1.13	7.807	1.015	1.13	97.3	-0.19
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.488	0.107	0.0755	113	0.74
Cyclamate	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
Diazepam	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79	± 0.254	2.423	0.703	0.281	87	-1.29
Ibuprofen	µg/l	-	± -	0.782	0.078	-	-	-
Iopamidol	µg/l	9.93	± 1.84	9.632	2.408	1.62	97	-0.18
Metoprolol	µg/l	0.252	± 0.0771	0.29	0.067	0.0853	115	0.44
Saccharin	µg/l	12.9	± 0.573	13.69	3.423	0.541	106	1.39
Sotalol	µg/l	0.236	± 0.0351	0.218	0.044	0.0351	92.5	-0.50
Sucralose	µg/l	8.28	± 2.08	7.714	1.543	1.84	93.1	-0.31
Sulfamethoxazole	µg/l	0.148	± 0.0116	0.141	0.03	0.0134	95	-0.56



The following results were achieved:

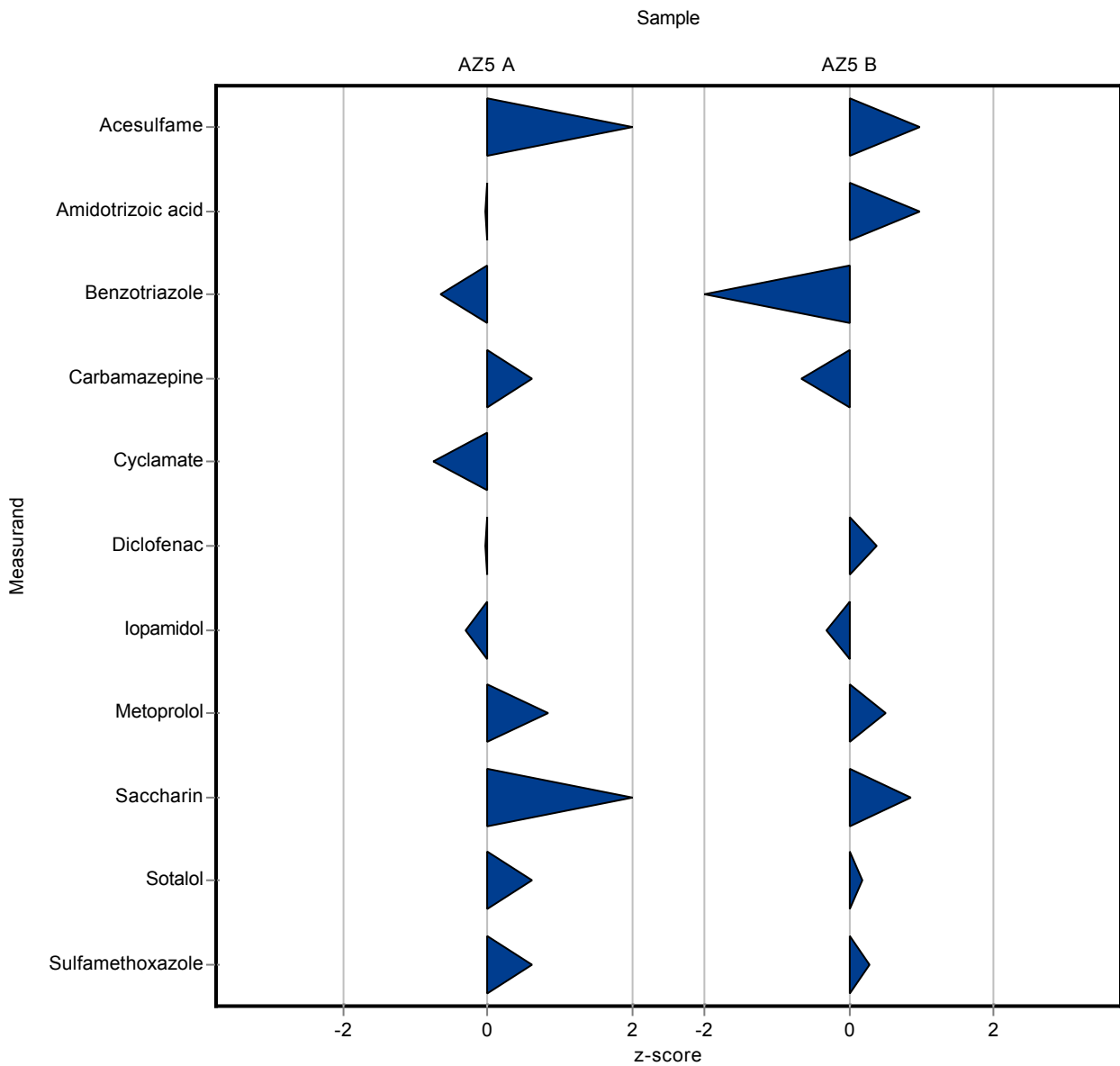
Sample: AZ5A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	0.183	0.046	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	0.078	0.019	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	0.107	0.027	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.351	0.0386	0.0501	125	1.39
Amidotrizoic acid	µg/l	0.27	± 0.0556	0.269	0.048	0.0491	99.5	-0.03
Atenolol	µg/l	-	± -	-	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.248	0.062	0.0181	95.5	-0.65
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.095	0.024	0.00883	106	0.61
Cyclamate	µg/l	0.0672	± 0.0141	0.0566	0.0096	0.0141	84.2	-0.75
Diazepam	µg/l	-	± -	0.21	0.053	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.142	0.036	0.0302	99.4	-0.03
Ibuprofen	µg/l	-	± -	-	-	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	0.28	0.0756	0.0465	95.3	-0.29
Metoprolol	µg/l	0.109	± 0.00791	0.115	0.029	0.00746	106	0.83
Saccharin	µg/l	0.128	± 0.0209	0.15	0.0345	0.0209	117	1.04
Sotalol	µg/l	0.0981	± 0.0142	0.107	0.027	0.0142	109	0.63
Sucralose	µg/l	0.395	± 0.15	-	-	0.133	-	-
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.089	0.022	0.00845	106	0.61

Sample: AZ5B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	3.08	0.77	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	2.57	0.643	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	1.13	0.283	-	-	-
Acesulfame	µg/l	8.99	± 1.33	10.5	1.155	1.53	117	0.98
Amidotrizoic acid	µg/l	1.06	± 0.297	1.3	0.234	0.243	122	0.98
Atenolol	µg/l	0.537	± 0.153	-	-	0.135	-	-
Benzotriazole	µg/l	8.02	± 1.13	6.86	1.715	1.13	85.5	-1.02
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.382	0.096	0.0755	88.5	-0.66
Cyclamate	µg/l	-	± -	0.0227	0.0039	-	-	-
Diazepam	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	2.89	0.723	0.281	104	0.37
Ibuprofen	µg/l	- ± -	-	-	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	9.43	2.5461	1.62	95	-0.31
Metoprolol	µg/l	0.252 ± 0.0771	0.294	0.074	0.0853	117	0.49
Saccharin	µg/l	12.9 ± 0.573	13.4	3.082	0.541	104	0.86
Sotalol	µg/l	0.236 ± 0.0351	0.242	0.061	0.0351	103	0.18
Sucralose	µg/l	8.28 ± 2.08	-	-	1.84	-	-
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.152	0.038	0.0134	102	0.27





The following results were achieved:

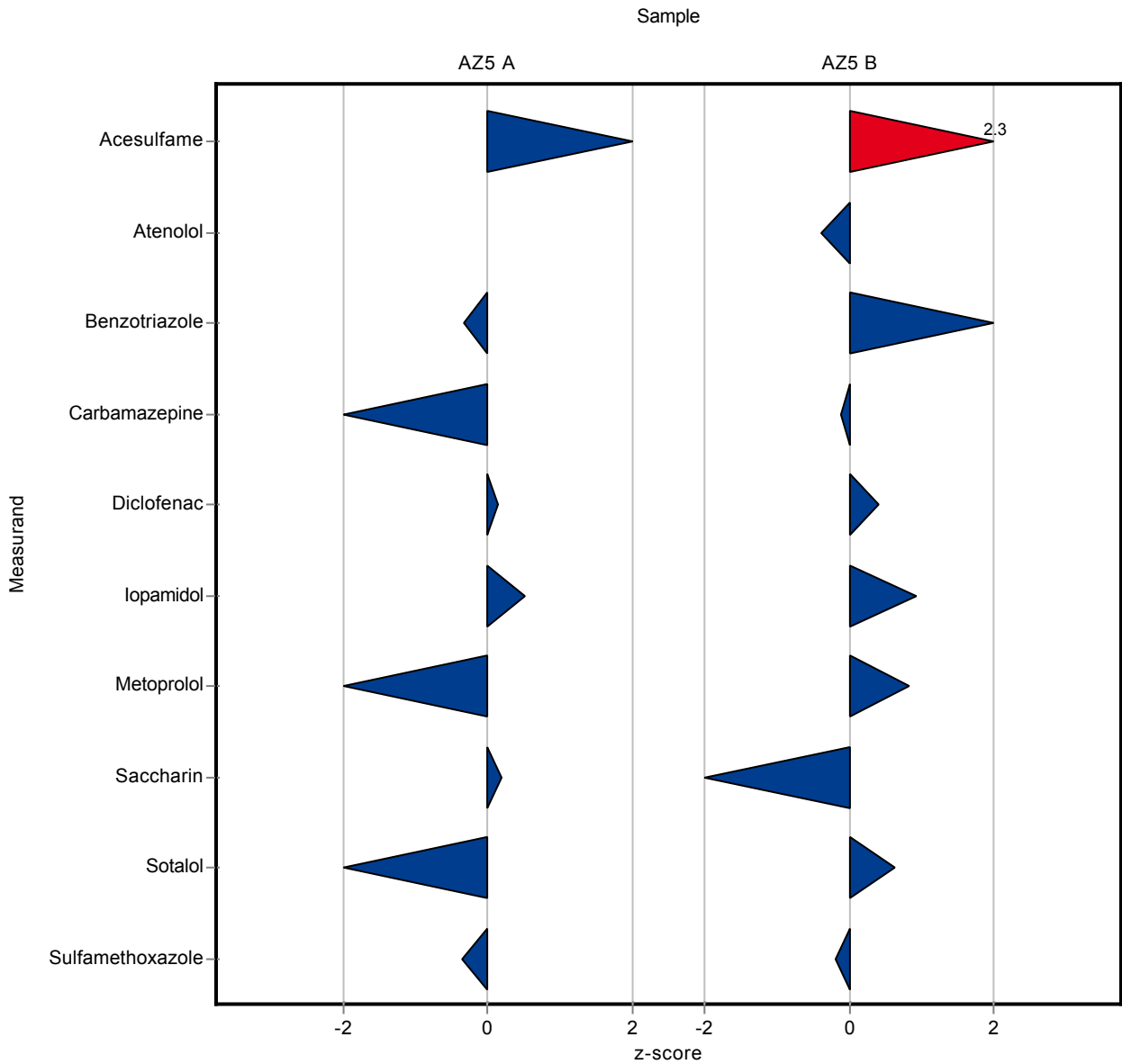
Sample: AZ5A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.34	0.119	0.0501	121	1.17
Amidotrizoic acid	µg/l	0.27	± 0.0556	-	-	0.0491	-	-
Atenolol	µg/l	-	± -	0.0026	0.0008	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.254	0.089	0.0181	97.8	-0.32
Bisoprolol	µg/l	-	± -	0.09	0.032	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.079	0.024	0.00883	88.1	-1.21
Cyclamate	µg/l	0.0672	± 0.0141	-	-	0.0141	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.147	0.044	0.0302	103	0.14
Ibuprofen	µg/l	-	± -	0.017	0.006	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	0.318	0.111	0.0465	108	0.52
Metoprolol	µg/l	0.109	± 0.00791	0.096	0.034	0.00746	88.2	-1.72
Saccharin	µg/l	0.128	± 0.0209	0.132	0.046	0.0209	103	0.18
Sotalol	µg/l	0.0981	± 0.0142	0.08	0.028	0.0142	81.5	-1.28
Sucralose	µg/l	0.395	± 0.15	-	-	0.133	-	-
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.081	0.024	0.00845	96.6	-0.34

Sample: AZ5B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	12.566	4.398	1.53	140	2.33
Amidotrizoic acid	µg/l	1.06	± 0.297	-	-	0.243	-	-
Atenolol	µg/l	0.537	± 0.153	0.484	0.145	0.135	90.1	-0.40
Benzotriazole	µg/l	8.02	± 1.13	9.573	3.351	1.13	119	1.37
Bisoprolol	µg/l	-	± -	0.352	0.123	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.422	0.127	0.0755	97.7	-0.13
Cyclamate	µg/l	-	± -	-	-	-	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	2.896	0.869	0.281	104	0.40
Ibuprofen	µg/l	- ± -	0.79	0.277	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	11.418	3.996	1.62	115	0.92
Metoprolol	µg/l	0.252 ± 0.0771	0.322	0.113	0.0853	128	0.82
Saccharin	µg/l	12.9 ± 0.573	12.354	4.324	0.541	95.5	-1.08
Sotalol	µg/l	0.236 ± 0.0351	0.258	0.09	0.0351	109	0.64
Sucralose	µg/l	8.28 ± 2.08	-	-	1.84	-	-
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.146	0.044	0.0134	98.4	-0.18



The following results were achieved:

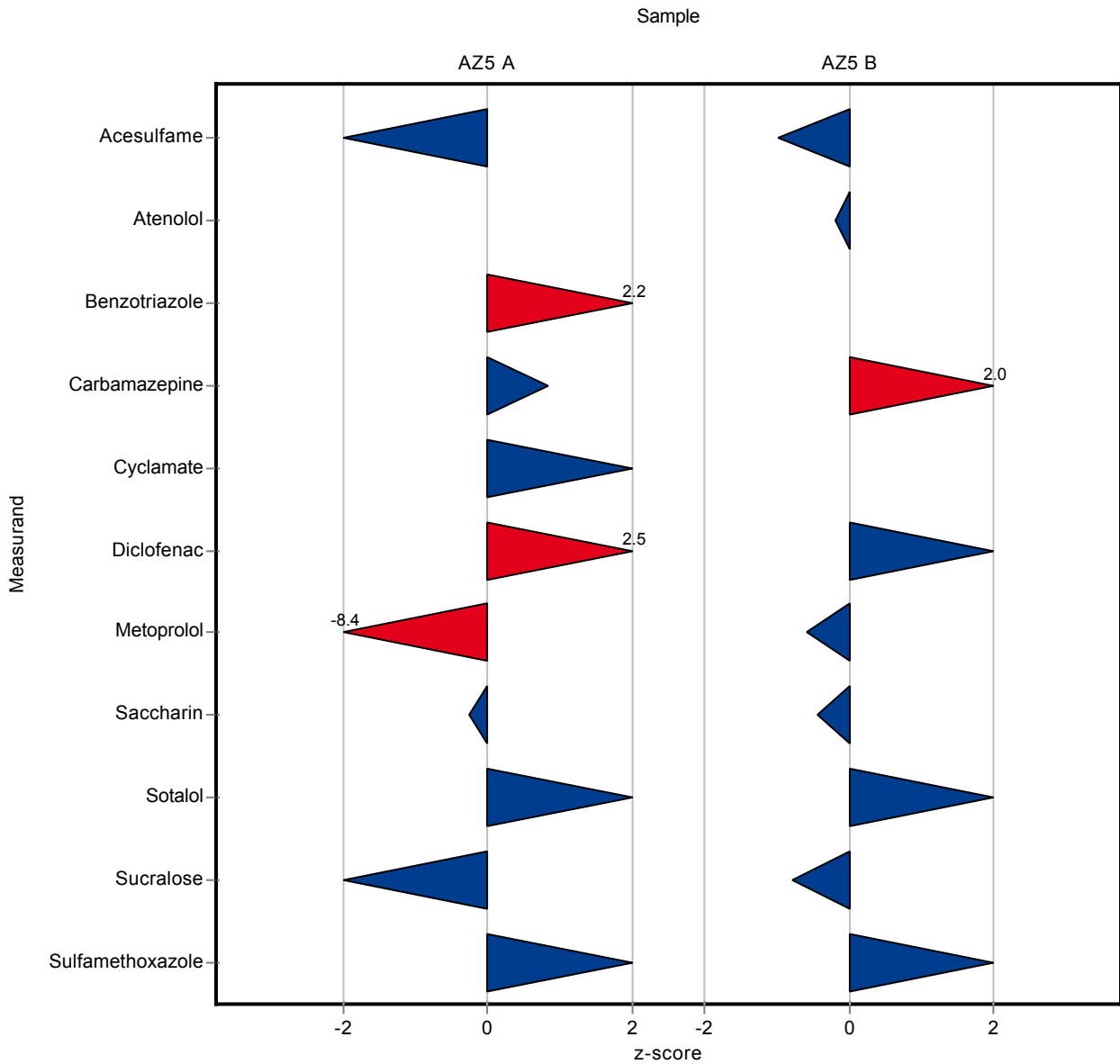
Sample: AZ5A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.2	0.03	0.0501	71.1	-1.62
Amidotrizoic acid	µg/l	0.27	± 0.0556	-	-	0.0491	-	-
Atenolol	µg/l	-	± -	<0.005	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.3	0.045	0.0181	115	2.22
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.097	0.0146	0.00883	108	0.83
Cyclamate	µg/l	0.0672	± 0.0141	0.082	0.0123	0.0141	122	1.04
Diazepam	µg/l	-	± -	-	-	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.218	0.0327	0.0302	153	2.49
Ibuprofen	µg/l	-	± -	0.015	0.00225	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	-	-	0.0465	-	-
Metoprolol	µg/l	0.109	± 0.00791	0.046	0.0069	0.00746	42.3	-8.43
Saccharin	µg/l	0.128	± 0.0209	0.123	0.0185	0.0209	96	-0.25
Sotalol	µg/l	0.0981	± 0.0142	0.115	0.0173	0.0142	117	1.19
Sucralose	µg/l	0.395	± 0.15	0.201	0.0302	0.133	50.9	-1.46
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.094	0.0141	0.00845	112	1.20

Sample: AZ5B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	7.5	1.13	1.53	83.4	-0.98
Amidotrizoic acid	µg/l	1.06	± 0.297	-	-	0.243	-	-
Atenolol	µg/l	0.537	± 0.153	0.512	0.0768	0.135	95.3	-0.19
Benzotriazole	µg/l	8.02	± 1.13	<0.005	-	1.13	-	-
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.583	0.0875	0.0755	135	2.00
Cyclamate	µg/l	-	± -	0.055	0.00825	-	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	3.265	0.49	0.281	117	1.71
Ibuprofen	µg/l	- ± -	-	-	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	-	-	1.62	-	-
Metoprolol	µg/l	0.252 ± 0.0771	0.202	0.0303	0.0853	80.1	-0.59
Saccharin	µg/l	12.9 ± 0.573	12.7	1.91	0.541	98.2	-0.44
Sotalol	µg/l	0.236 ± 0.0351	0.298	0.0447	0.0351	126	1.78
Sucralose	µg/l	8.28 ± 2.08	6.85	1.028	1.84	82.7	-0.78
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.162	0.0243	0.0134	109	1.01



The following results were achieved:

Sample: AZ5A

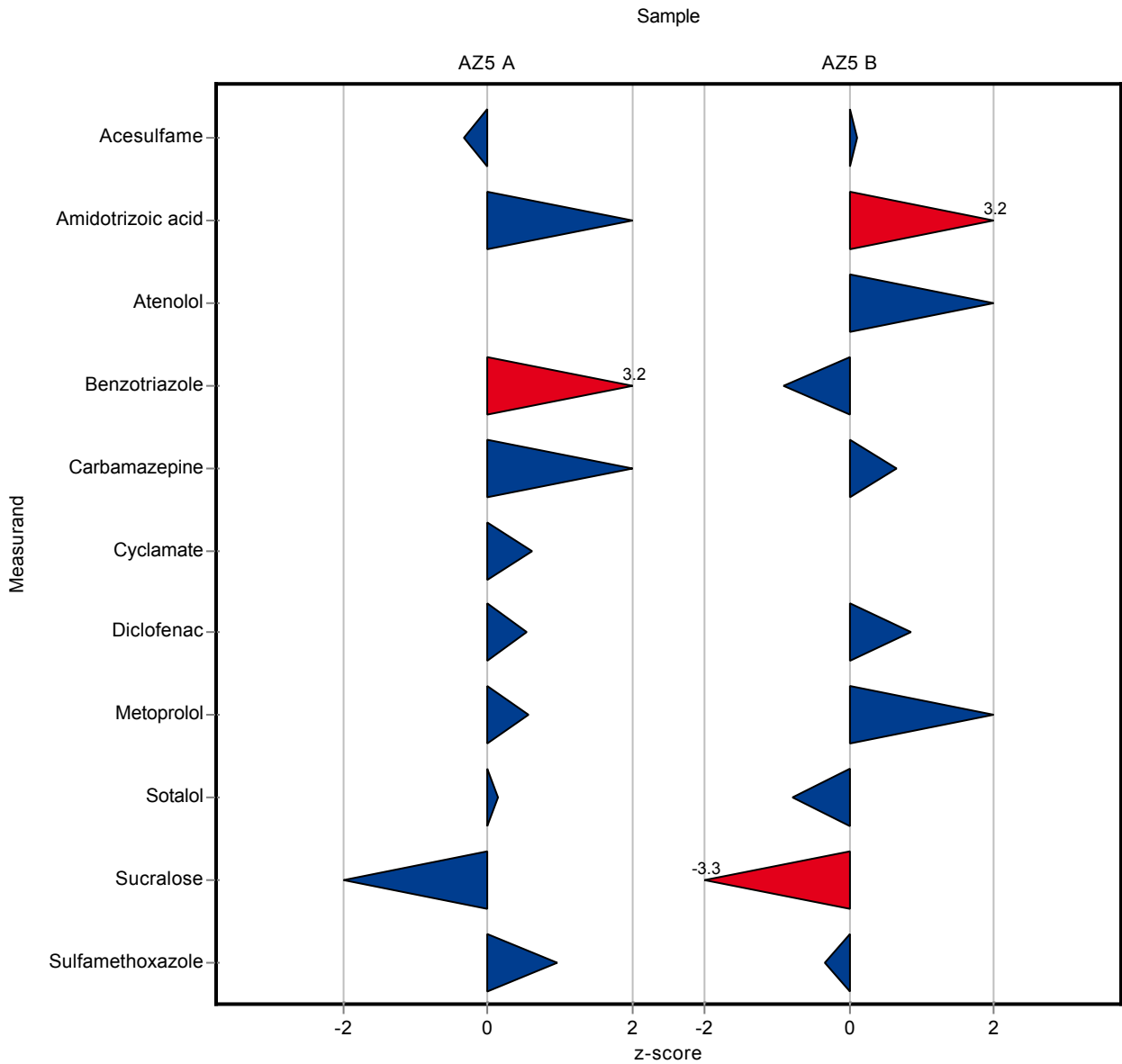
Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.265	-	0.0501	94.2	-0.32
Amidotrizoic acid	µg/l	0.27	± 0.0556	0.365	-	0.0491	135	1.93
Atenolol	µg/l	-	± -	<0.015	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.317	-	0.0181	122	3.16
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.099	-	0.00883	110	1.06
Cyclamate	µg/l	0.0672	± 0.0141	0.076	-	0.0141	113	0.62
Diazepam	µg/l	-	± -	-	-	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.159	-	0.0302	111	0.53
Ibuprofen	µg/l	-	± -	-	-	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	-	-	0.0465	-	-
Metoprolol	µg/l	0.109	± 0.00791	0.113	-	0.00746	104	0.56
Saccharin	µg/l	0.128	± 0.0209	-	-	0.0209	-	-
Sotalol	µg/l	0.0981	± 0.0142	0.1	-	0.0142	102	0.13
Sucralose	µg/l	0.395	± 0.15	0.238	-	0.133	60.3	-1.18
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.092	-	0.00845	110	0.96

Sample: AZ5B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	9.136	-	1.53	102	0.09
Amidotrizoic acid	µg/l	1.06	± 0.297	1.832	-	0.243	173	3.17
Atenolol	µg/l	0.537	± 0.153	0.738	-	0.135	137	1.49
Benzotriazole	µg/l	8.02	± 1.13	6.985	-	1.13	87.1	-0.91
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.481	-	0.0755	111	0.65
Cyclamate	µg/l	-	± -	0.03	-	-	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	3.021	-	0.281	108	0.84
Ibuprofen	µg/l	- ± -	-	-	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	-	-	1.62	-	-
Metoprolol	µg/l	0.252 ± 0.0771	0.401	-	0.0853	159	1.74
Saccharin	µg/l	12.9 ± 0.573	-	-	0.541	-	-
Sotalol	µg/l	0.236 ± 0.0351	0.208	-	0.0351	88.3	-0.79
Sucralose	µg/l	8.28 ± 2.08	2.17	-	1.84	26.2	-3.33
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.144	-	0.0134	97	-0.33





The following results were achieved:

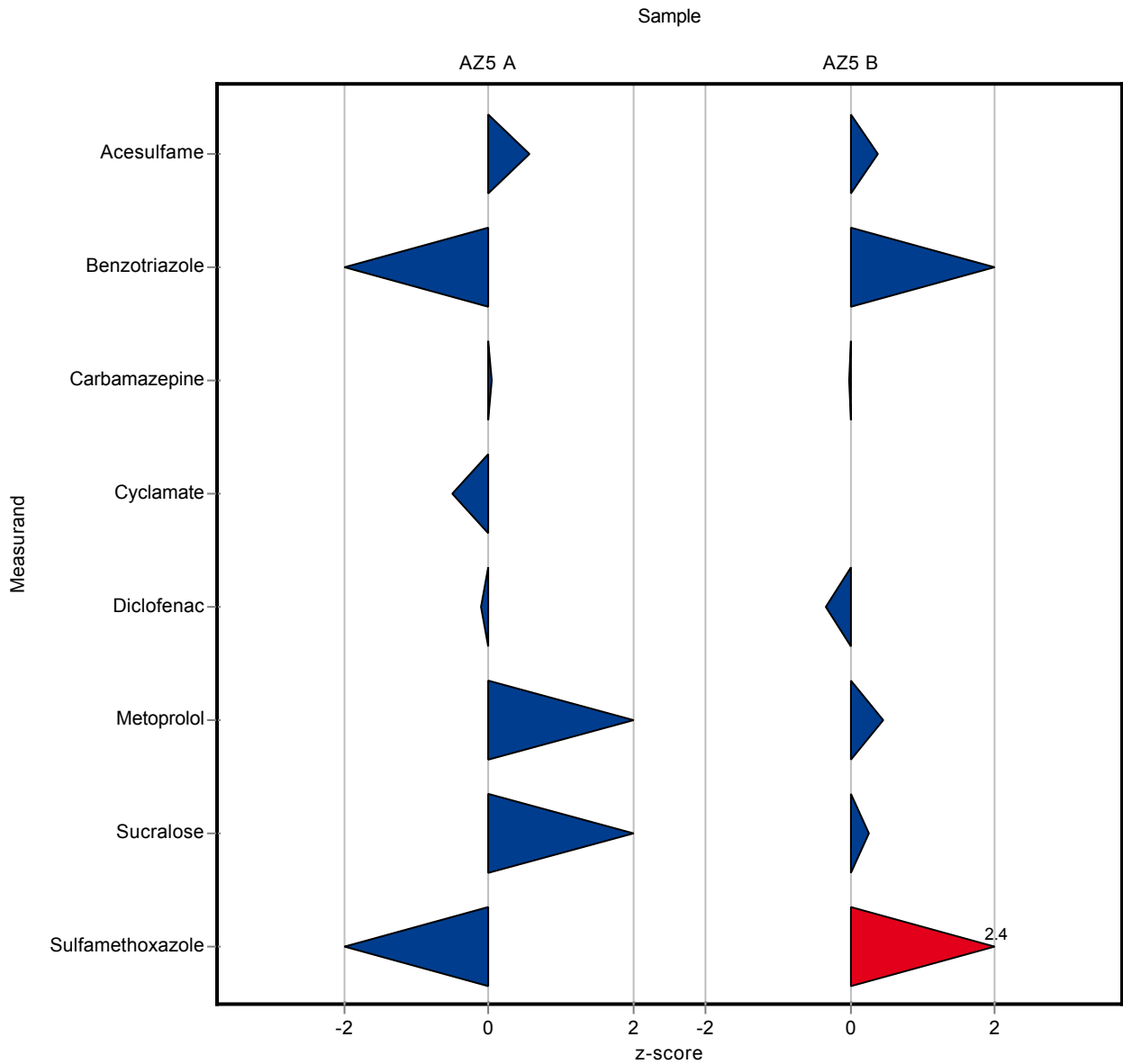
**Sample: AZ5A**

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.31	0.062	0.0501	110	0.57
Amidotrizoic acid	µg/l	0.27	± 0.0556	-	-	0.0491	-	-
Atenolol	µg/l	-	± -	-	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.24	0.048	0.0181	92.4	-1.10
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.09	0.018	0.00883	100	0.04
Cyclamate	µg/l	0.0672	± 0.0141	0.06	0.012	0.0141	89.2	-0.51
Diazepam	µg/l	-	± -	-	-	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.14	0.028	0.0302	98	-0.10
Ibuprofen	µg/l	-	± -	-	-	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	-	-	0.0465	-	-
Metoprolol	µg/l	0.109	± 0.00791	0.12	0.024	0.00746	110	1.50
Saccharin	µg/l	0.128	± 0.0209	-	-	0.0209	-	-
Sotalol	µg/l	0.0981	± 0.0142	-	-	0.0142	-	-
Sucralose	µg/l	0.395	± 0.15	0.55	0.11	0.133	139	1.17
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.07	0.014	0.00845	83.4	-1.64

**Sample: AZ5B**

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	9.56	1.91	1.53	106	0.37
Amidotrizoic acid	µg/l	1.06	± 0.297	-	-	0.243	-	-
Atenolol	µg/l	0.537	± 0.153	-	-	0.135	-	-
Benzotriazole	µg/l	8.02	± 1.13	10.2	2.04	1.13	127	1.92
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.43	0.09	0.0755	99.6	-0.02
Cyclamate	µg/l	-	± -	<0.1 (LOQ)	-	-	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	2.69	0.538	0.281	96.6	-0.34
Ibuprofen	µg/l	- ± -	-	-	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	-	-	1.62	-	-
Metoprolol	µg/l	0.252 ± 0.0771	0.29	0.058	0.0853	115	0.44
Saccharin	µg/l	12.9 ± 0.573	-	-	0.541	-	-
Sotalol	µg/l	0.236 ± 0.0351	-	-	0.0351	-	-
Sucralose	µg/l	8.28 ± 2.08	8.77	1.75	1.84	106	0.27
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.18	0.036	0.0134	121	2.35



The following results were achieved:

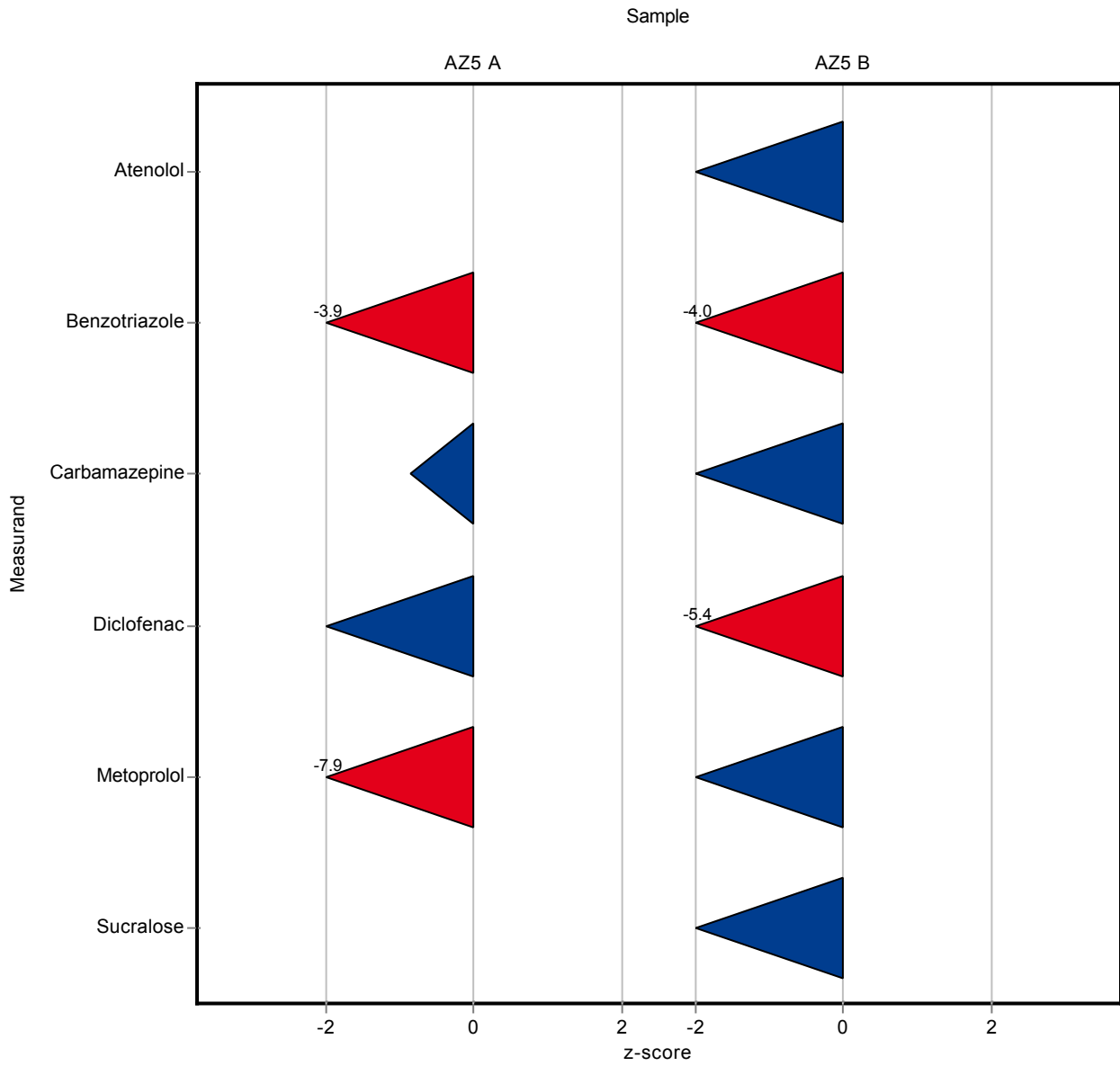
Sample: AZ5A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	0.033	0.003	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	-	-	0.0501	-	-
Amidotrizoic acid	µg/l	0.27	± 0.0556	-	-	0.0491	-	-
Atenolol	µg/l	-	± -	<0.05 (LOQ)	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.189	0.011	0.0181	72.7	-3.92
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.082	0.004	0.00883	91.5	-0.87
Cyclamate	µg/l	0.0672	± 0.0141	-	-	0.0141	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.102	0.008	0.0302	71.4	-1.35
Ibuprofen	µg/l	-	± -	-	-	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	-	-	0.0465	-	-
Metoprolol	µg/l	0.109	± 0.00791	0.05	0.004	0.00746	45.9	-7.89
Saccharin	µg/l	0.128	± 0.0209	-	-	0.0209	-	-
Sotalol	µg/l	0.0981	± 0.0142	-	-	0.0142	-	-
Sucralose	µg/l	0.395	± 0.15	<0.25 (LOQ)	-	0.133	-	-
Sulfamethoxazole	µg/l	0.0839	± 0.00731	-	-	0.00845	-	-

Sample: AZ5B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	0.803	0.078	-	-	-
Acesulfame	µg/l	8.99	± 1.33	-	-	1.53	-	-
Amidotrizoic acid	µg/l	1.06	± 0.297	-	-	0.243	-	-
Atenolol	µg/l	0.537	± 0.153	0.292	0.045	0.135	54.4	-1.82
Benzotriazole	µg/l	8.02	± 1.13	3.502	0.196	1.13	43.7	-3.98
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.292	0.026	0.0755	67.6	-1.85
Cyclamate	µg/l	-	± -	-	-	-	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	1.259	0.093	0.281	45.2	-5.44
Ibuprofen	µg/l	- ± -	-	-	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	-	-	1.62	-	-
Metoprolol	µg/l	0.252 ± 0.0771	0.114	0.01	0.0853	45.2	-1.62
Saccharin	µg/l	12.9 ± 0.573	-	-	0.541	-	-
Sotalol	µg/l	0.236 ± 0.0351	-	-	0.0351	-	-
Sucralose	µg/l	8.28 ± 2.08	5.7	0.98	1.84	68.8	-1.41
Sulfamethoxazole	µg/l	0.148 ± 0.0116	-	-	0.0134	-	-



The following results were achieved:

Sample: AZ5A

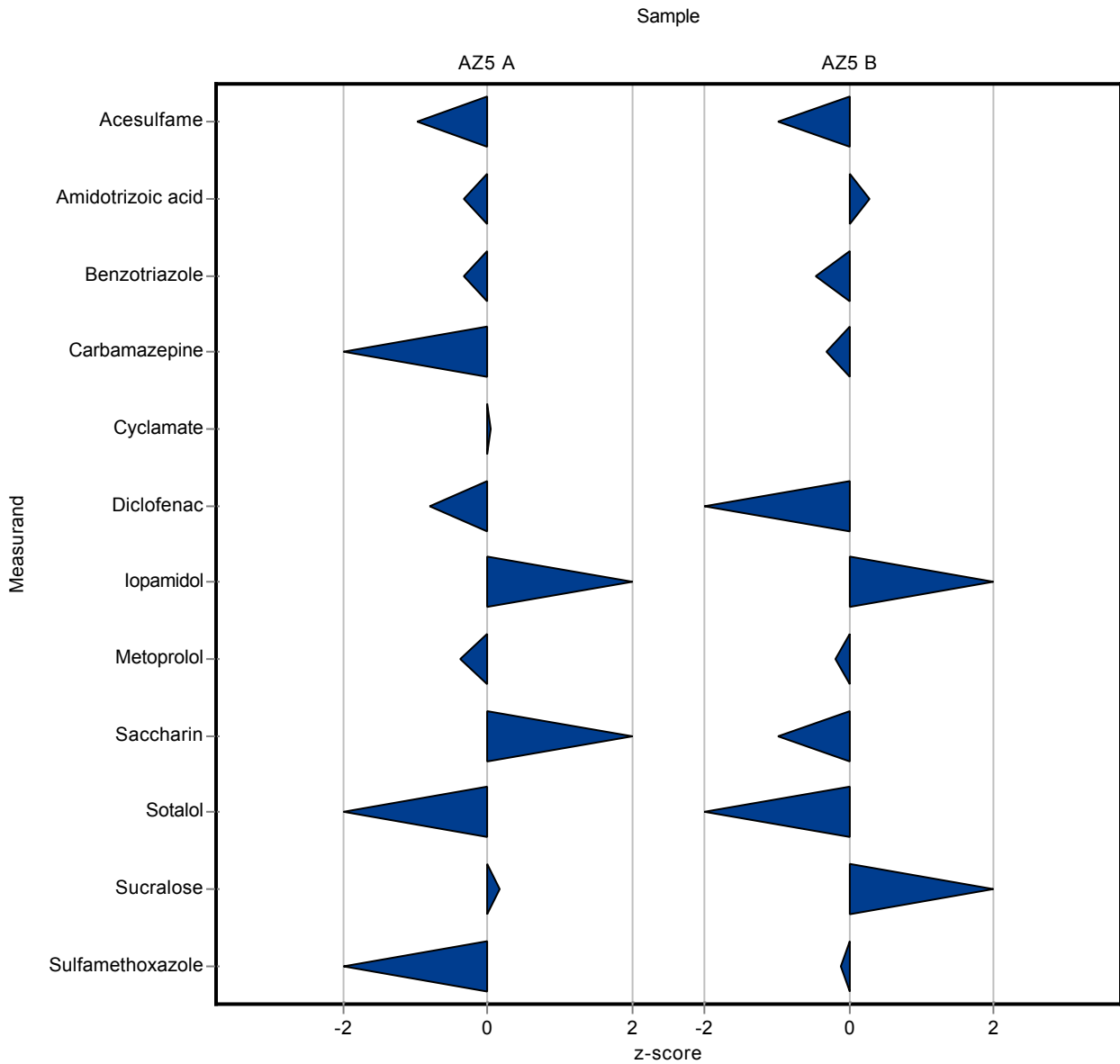
Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.233	0.047	0.0501	82.8	-0.96
Amidotrizoic acid	µg/l	0.27	± 0.0556	0.254	0.051	0.0491	93.9	-0.34
Atenolol	µg/l	-	± -	-	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.254	0.051	0.0181	97.8	-0.32
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.079	0.016	0.00883	88.1	-1.21
Cyclamate	µg/l	0.0672	± 0.0141	0.068	0.02	0.0141	101	0.05
Diazepam	µg/l	-	± -	0.176	0.035	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.119	0.024	0.0302	83.3	-0.79
Ibuprofen	µg/l	-	± -	<0.1 (LOQ)	-	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	0.361	0.072	0.0465	123	1.45
Metoprolol	µg/l	0.109	± 0.00791	0.106	0.021	0.00746	97.4	-0.38
Saccharin	µg/l	0.128	± 0.0209	0.161	0.048	0.0209	126	1.57
Sotalol	µg/l	0.0981	± 0.0142	0.072	0.014	0.0142	73.4	-1.84
Sucralose	µg/l	0.395	± 0.15	0.416	0.125	0.133	105	0.16
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.067	0.013	0.00845	79.9	-2.00

Sample: AZ5B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	7.48	1.5	1.53	83.2	-0.99
Amidotrizoic acid	µg/l	1.06	± 0.297	1.13	0.23	0.243	106	0.28
Atenolol	µg/l	0.537	± 0.153	-	-	0.135	-	-
Benzotriazole	µg/l	8.02	± 1.13	7.49	1.5	1.13	93.4	-0.47
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.407	0.081	0.0755	94.3	-0.33
Cyclamate	µg/l	-	± -	<0.1 (LOQ)	-	-	-	-
Diazepam	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-



Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	2.4	0.48	0.281	86.2	-1.37
Ibuprofen	µg/l	- ± -	<0.1 (LOQ)	-	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	12.2	2.4	1.62	123	1.40
Metoprolol	µg/l	0.252 ± 0.0771	0.235	0.047	0.0853	93.1	-0.20
Saccharin	µg/l	12.9 ± 0.573	12.4	3.7	0.541	95.9	-0.99
Sotalol	µg/l	0.236 ± 0.0351	0.175	0.035	0.0351	74.3	-1.73
Sucralose	µg/l	8.28 ± 2.08	11.5	3.5	1.84	139	1.75
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.147	0.029	0.0134	99	-0.11



The following results were achieved:

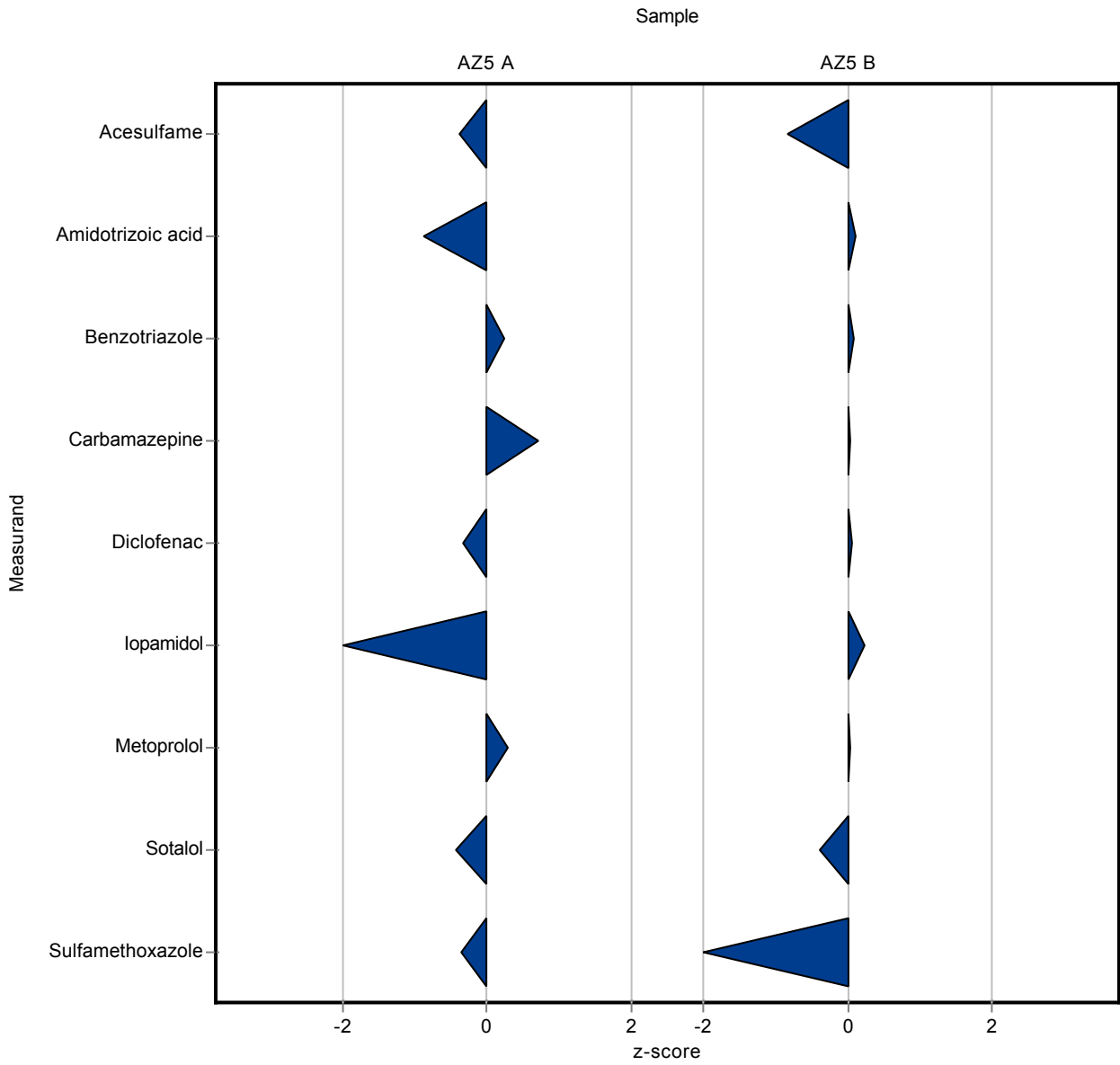
Sample: AZ5A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	0.206	0.0491	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	0.086	0.0143	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.262	0.0524	0.0501	93.2	-0.38
Amidotrizoic acid	µg/l	0.27	± 0.0556	0.228	0.0631	0.0491	84.3	-0.87
Atenolol	µg/l	-	± -	-	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.264	0.0528	0.0181	102	0.23
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.096	0.03	0.00883	107	0.72
Cyclamate	µg/l	0.0672	± 0.0141	-	-	0.0141	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.133	0.0358	0.0302	93.1	-0.33
Ibuprofen	µg/l	-	± -	0.0121	0.0028	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	0.227	0.0563	0.0465	77.3	-1.43
Metoprolol	µg/l	0.109	± 0.00791	0.111	0.0349	0.00746	102	0.29
Saccharin	µg/l	0.128	± 0.0209	-	-	0.0209	-	-
Sotalol	µg/l	0.0981	± 0.0142	0.092	0.0307	0.0142	93.8	-0.43
Sucralose	µg/l	0.395	± 0.15	-	-	0.133	-	-
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.081	0.0215	0.00845	96.6	-0.34

Sample: AZ5B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	3.16	0.754	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	2.76	0.459	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	7.7	1.54	1.53	85.6	-0.84
Amidotrizoic acid	µg/l	1.06	± 0.297	1.09	0.303	0.243	103	0.12
Atenolol	µg/l	0.537	± 0.153	-	-	0.135	-	-
Benzotriazole	µg/l	8.02	± 1.13	8.11	1.62	1.13	101	0.08
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.434	0.136	0.0755	101	0.03
Cyclamate	µg/l	-	± -	-	-	-	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	2.8	0.753	0.281	101	0.05
Ibuprofen	µg/l	- ± -	0.971	0.229	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	10.28	2.55	1.62	104	0.22
Metoprolol	µg/l	0.252 ± 0.0771	0.255	0.0801	0.0853	101	0.03
Saccharin	µg/l	12.9 ± 0.573	-	-	0.541	-	-
Sotalol	µg/l	0.236 ± 0.0351	0.222	0.0741	0.0351	94.2	-0.39
Sucralose	µg/l	8.28 ± 2.08	-	-	1.84	-	-
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.131	0.0347	0.0134	88.3	-1.30



The following results were achieved:

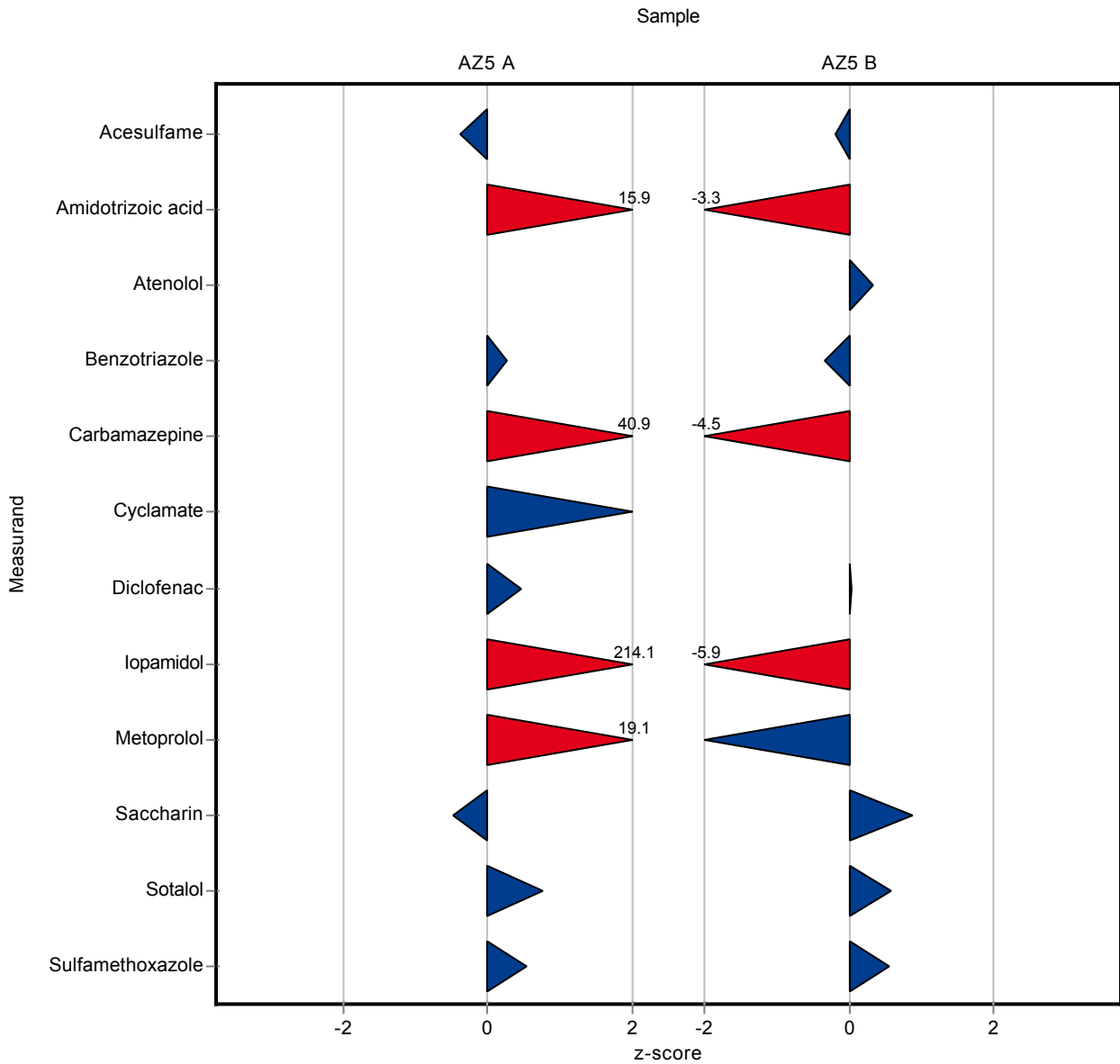
Sample: AZ5A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	0.1936	0.0252	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	0.0813	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.2623	0.0446	0.0501	93.3	-0.38
Amidotrizoic acid	µg/l	0.27	± 0.0556	1.0515	0.2734	0.0491	389	15.90
Atenolol	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.2645	0.037	0.0181	102	0.26
Bisoprolol	µg/l	-	± -	0.2758	0.102	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.451	0.1308	0.00883	503	40.90
Cyclamate	µg/l	0.0672	± 0.0141	0.089	0.0134	0.0141	132	1.54
Diazepam	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.1567	0.0501	0.0302	110	0.46
Ibuprofen	µg/l	-	± -	<0.01 (LOQ)	-	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	10.2565	1.5385	0.0465	3490	214.00
Metoprolol	µg/l	0.109	± 0.00791	0.251	0.0703	0.00746	231	19.10
Saccharin	µg/l	0.128	± 0.0209	0.118	0.0189	0.0209	92.1	-0.49
Sotalol	µg/l	0.0981	± 0.0142	0.1091	0.0186	0.0142	111	0.77
Sucralose	µg/l	0.395	± 0.15	-	-	0.133	-	-
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.0884	0.0133	0.00845	105	0.54

Sample: AZ5B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	3.2815	0.4266	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	2.4727	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	8.7155	1.4816	1.53	96.9	-0.18
Amidotrizoic acid	µg/l	1.06	± 0.297	0.2556	0.0665	0.243	24.1	-3.32
Atenolol	µg/l	0.537	± 0.153	0.5817	0.0873	0.135	108	0.33
Benzotriazole	µg/l	8.02	± 1.13	7.639	1.0695	1.13	95.2	-0.34
Bisoprolol	µg/l	-	± -	0.0971	0.0359	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.0928	0.0269	0.0755	21.5	-4.49
Cyclamate	µg/l	-	± -	0.0246	0.0037	-	-	-
Diazepam	µg/l	-	± -	0.1905	0.0286	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	2.7968	0.895	0.281	100	0.04
Ibuprofen	µg/l	- ± -	0.9522	0.3047	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	0.3064	0.046	1.62	3.09	-5.94
Metoprolol	µg/l	0.252 ± 0.0771	0.114	0.0319	0.0853	45.2	-1.62
Saccharin	µg/l	12.9 ± 0.573	13.408	2.1453	0.541	104	0.87
Sotalol	µg/l	0.236 ± 0.0351	0.2556	0.0435	0.0351	108	0.57
Sucralose	µg/l	8.28 ± 2.08	-	-	1.84	-	-
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.1559	0.0234	0.0134	105	0.56





The following results were achieved:

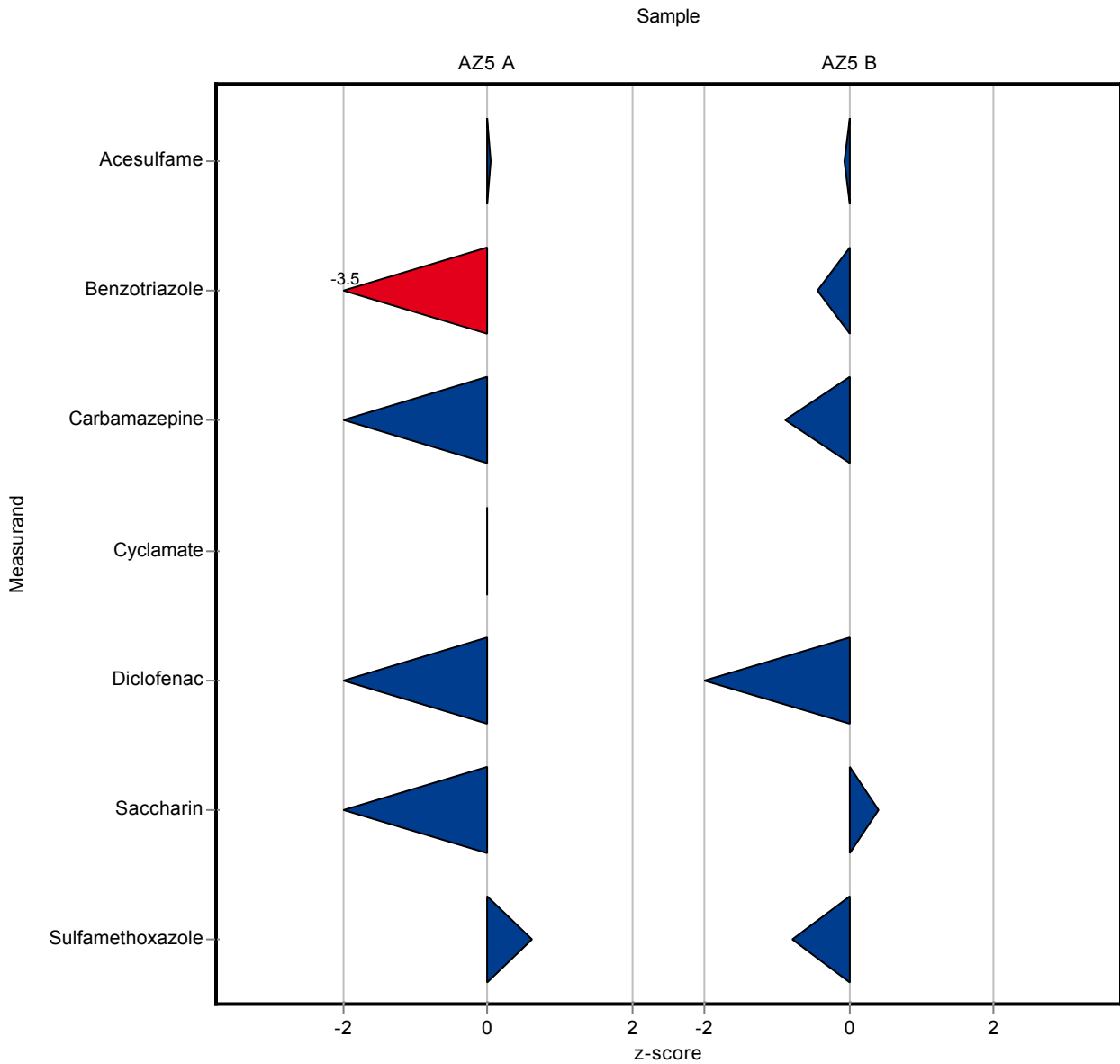
**Sample: AZ5A**

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.284	0.04	0.0501	101	0.05
Amidotrizoic acid	µg/l	0.27	± 0.0556	-	-	0.0491	-	-
Atenolol	µg/l	-	± -	-	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	0.197	0.03	0.0181	75.8	-3.47
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	0.076	0.01	0.00883	84.8	-1.55
Cyclamate	µg/l	0.0672	± 0.0141	0.067	0.01	0.0141	99.6	-0.02
Diazepam	µg/l	-	± -	-	-	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	0.11	0.02	0.0302	77	-1.09
Ibuprofen	µg/l	-	± -	-	-	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	-	-	0.0465	-	-
Metoprolol	µg/l	0.109	± 0.00791	-	-	0.00746	-	-
Saccharin	µg/l	0.128	± 0.0209	0.098	0.02	0.0209	76.5	-1.44
Sotalol	µg/l	0.0981	± 0.0142	-	-	0.0142	-	-
Sucralose	µg/l	0.395	± 0.15	-	-	0.133	-	-
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.089	0.01	0.00845	106	0.61

**Sample: AZ5B**

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	8.897	1.34	1.53	98.9	-0.06
Amidotrizoic acid	µg/l	1.06	± 0.297	-	-	0.243	-	-
Atenolol	µg/l	0.537	± 0.153	-	-	0.135	-	-
Benzotriazole	µg/l	8.02	± 1.13	7.527	1.13	1.13	93.8	-0.43
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	0.364	0.06	0.0755	84.3	-0.90
Cyclamate	µg/l	-	± -	0.0174	0.003	-	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	2.425	0.37	0.281	87.1	-1.28
Ibuprofen	µg/l	- ± -	-	-	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	-	-	1.62	-	-
Metoprolol	µg/l	0.252 ± 0.0771	-	-	0.0853	-	-
Saccharin	µg/l	12.9 ± 0.573	13.16	1.98	0.541	102	0.41
Sotalol	µg/l	0.236 ± 0.0351	-	-	0.0351	-	-
Sucralose	µg/l	8.28 ± 2.08	-	-	1.84	-	-
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.138	0.02	0.0134	93	-0.78



The following results were achieved:

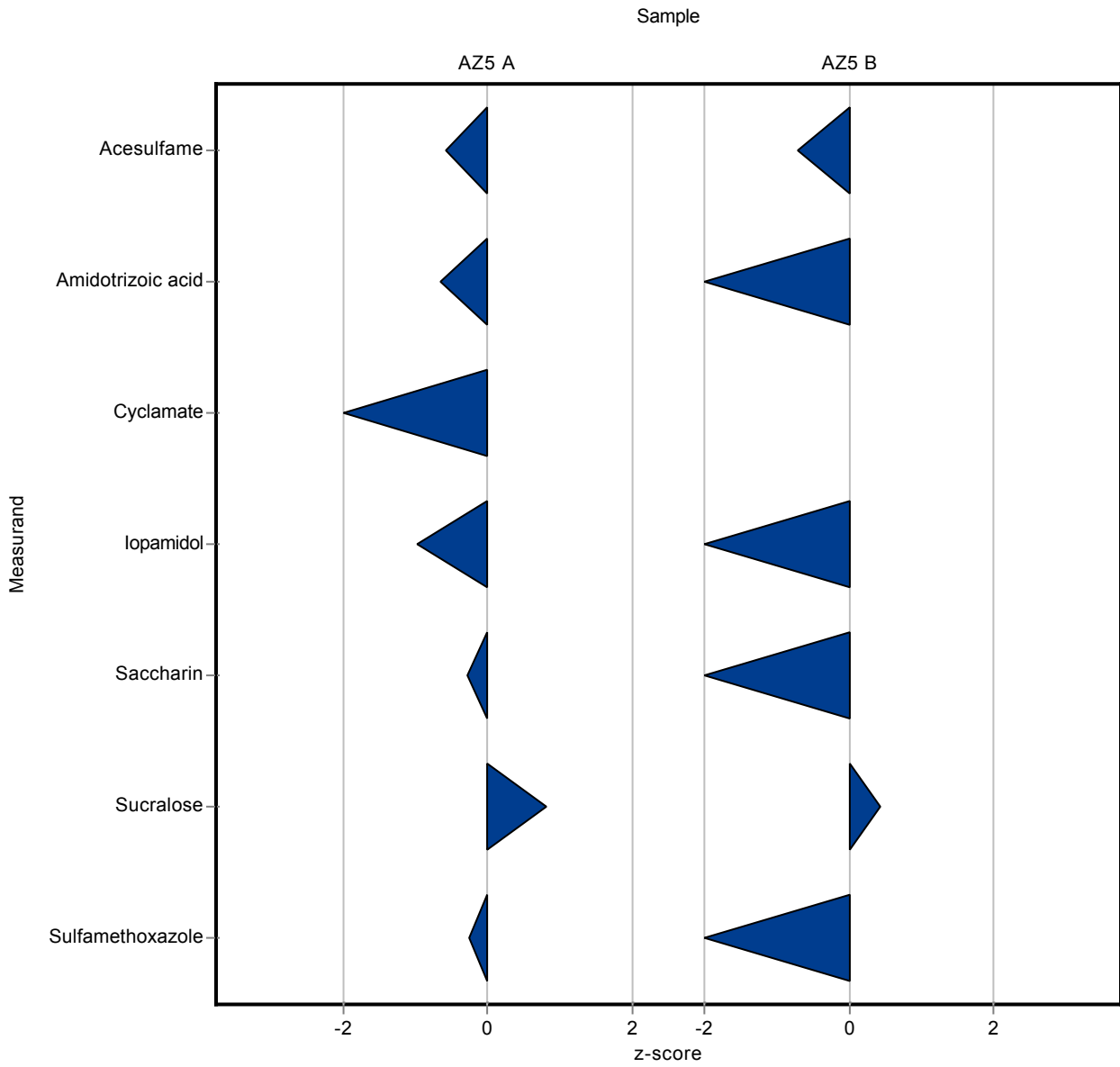
Sample: AZ5A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.2528	0.0044	0.0501	89.9	-0.57
Amidotrizoic acid	µg/l	0.27	± 0.0556	0.2382	0.0575	0.0491	88.1	-0.66
Atenolol	µg/l	-	± -	-	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	-	-	0.0181	-	-
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	-	-	0.00883	-	-
Cyclamate	µg/l	0.0672	± 0.0141	0.0416	0.0045	0.0141	61.9	-1.82
Diazepam	µg/l	-	± -	-	-	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	-	-	0.0302	-	-
Ibuprofen	µg/l	-	± -	-	-	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	0.2483	0.0223	0.0465	84.6	-0.97
Metoprolol	µg/l	0.109	± 0.00791	-	-	0.00746	-	-
Saccharin	µg/l	0.128	± 0.0209	0.1226	0.0193	0.0209	95.6	-0.27
Sotalol	µg/l	0.0981	± 0.0142	-	-	0.0142	-	-
Sucralose	µg/l	0.395	± 0.15	0.5042	0.1693	0.133	128	0.82
Sulfamethoxazole	µg/l	0.0839	± 0.00731	0.0817	0.0029	0.00845	97.4	-0.26

Sample: AZ5B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	7.8868	0.1388	1.53	87.7	-0.72
Amidotrizoic acid	µg/l	1.06	± 0.297	0.5987	0.1445	0.243	56.4	-1.91
Atenolol	µg/l	0.537	± 0.153	-	-	0.135	-	-
Benzotriazole	µg/l	8.02	± 1.13	-	-	1.13	-	-
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	-	-	0.0755	-	-
Cyclamate	µg/l	-	± -	<0.025	-	-	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	-	-	0.281	-	-
Ibuprofen	µg/l	- ± -	-	-	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	7.1798	0.6462	1.62	72.3	-1.70
Metoprolol	µg/l	0.252 ± 0.0771	-	-	0.0853	-	-
Saccharin	µg/l	12.9 ± 0.573	12.381	1.0226	0.541	95.7	-1.03
Sotalol	µg/l	0.236 ± 0.0351	-	-	0.0351	-	-
Sucralose	µg/l	8.28 ± 2.08	9.0458	3.0376	1.84	109	0.42
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.1334	0.0048	0.0134	89.9	-1.12



The following results were achieved:

Sample: AZ5A

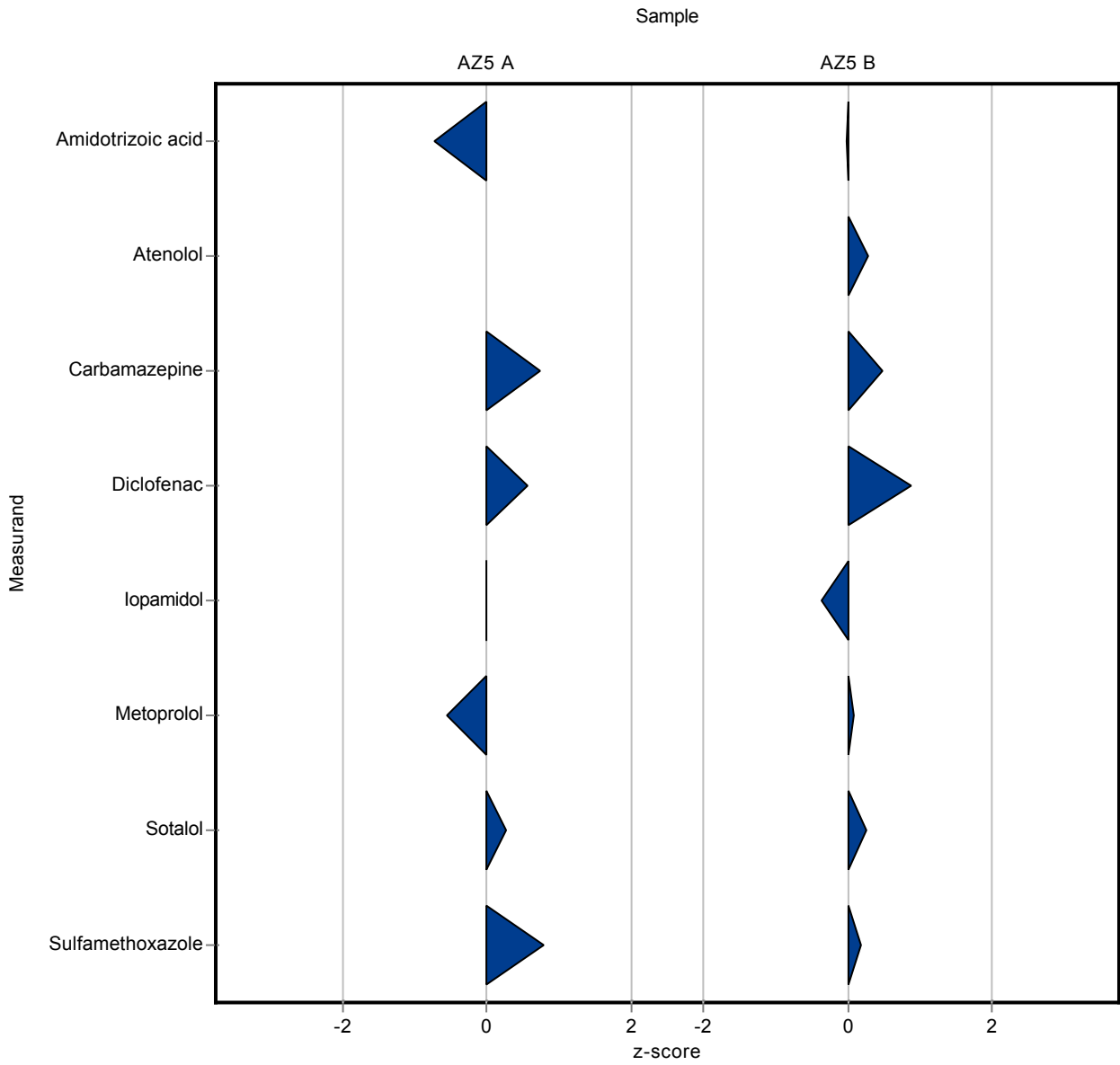
Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	±	-	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	±	-	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	±	-	-	-	-	-	-
Acesulfame	µg/l	0.281	±	0.0434	-	-	0.0501	-	-
Amidotrizoic acid	µg/l	0.27	±	0.0556	0.235	0.01645	0.0491	86.9	-0.72
Atenolol	µg/l	-	±	-	0.002	0.00026	-	-	-
Benzotriazole	µg/l	0.26	±	0.0192	-	-	0.0181	-	-
Bisoprolol	µg/l	-	±	-	-	-	-	-	-
Carbamazepine	µg/l	0.0897	±	0.00798	0.0962	0.00962	0.00883	107	0.74
Cyclamate	µg/l	0.0672	±	0.0141	-	-	0.0141	-	-
Diazepam	µg/l	-	±	-	-	-	-	-	-
Diclofenac	µg/l	0.143	±	0.0262	0.1598	0.02557	0.0302	112	0.56
Ibuprofen	µg/l	-	±	-	-	-	-	-	-
Iopamidol	µg/l	0.294	±	0.0528	0.2933	0.044	0.0465	99.9	-0.01
Metoprolol	µg/l	0.109	±	0.00791	0.1047	0.0178	0.00746	96.2	-0.56
Saccharin	µg/l	0.128	±	0.0209	-	-	0.0209	-	-
Sotalol	µg/l	0.0981	±	0.0142	0.1019	0.01019	0.0142	104	0.27
Sucralose	µg/l	0.395	±	0.15	-	-	0.133	-	-
Sulfamethoxazole	µg/l	0.0839	±	0.00731	0.0905	0.00362	0.00845	108	0.78

Sample: AZ5B

Parameter	Unit	Target	±	CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	±	-	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	±	-	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	±	-	-	-	-	-	-
Acesulfame	µg/l	8.99	±	1.33	-	-	1.53	-	-
Amidotrizoic acid	µg/l	1.06	±	0.297	1.0573	0.05287	0.243	99.6	-0.02
Atenolol	µg/l	0.537	±	0.153	0.576	0.07488	0.135	107	0.29
Benzotriazole	µg/l	8.02	±	1.13	-	-	1.13	-	-
Bisoprolol	µg/l	-	±	-	-	-	-	-	-
Carbamazepine	µg/l	0.432	±	0.0683	0.467	0.03269	0.0755	108	0.47
Cyclamate	µg/l	-	±	-	-	-	-	-	-
Diazepam	µg/l	-	±	-	-	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	3.0289	0.4846	0.281	109	0.87
Ibuprofen	µg/l	- ± -	-	-	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	9.341	1.30774	1.62	94.1	-0.36
Metoprolol	µg/l	0.252 ± 0.0771	0.2587	0.06209	0.0853	103	0.07
Saccharin	µg/l	12.9 ± 0.573	-	-	0.541	-	-
Sotalol	µg/l	0.236 ± 0.0351	0.2444	0.022	0.0351	104	0.25
Sucralose	µg/l	8.28 ± 2.08	-	-	1.84	-	-
Sulfamethoxazole	µg/l	0.148 ± 0.0116	0.1509	0.00755	0.0134	102	0.18





The following results were achieved:

**Sample: AZ5A**

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	0.281	± 0.0434	0.364	0.091	0.0501	129	1.65
Amidotrizoic acid	µg/l	0.27	± 0.0556	-	-	0.0491	-	-
Atenolol	µg/l	-	± -	-	-	-	-	-
Benzotriazole	µg/l	0.26	± 0.0192	-	-	0.0181	-	-
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.0897	± 0.00798	-	-	0.00883	-	-
Cyclamate	µg/l	0.0672	± 0.0141	0.151	0.038	0.0141	225	5.93
Diazepam	µg/l	-	± -	-	-	-	-	-
Diclofenac	µg/l	0.143	± 0.0262	-	-	0.0302	-	-
Ibuprofen	µg/l	-	± -	-	-	-	-	-
Iopamidol	µg/l	0.294	± 0.0528	-	-	0.0465	-	-
Metoprolol	µg/l	0.109	± 0.00791	-	-	0.00746	-	-
Saccharin	µg/l	0.128	± 0.0209	0.104	0.026	0.0209	81.1	-1.15
Sotalol	µg/l	0.0981	± 0.0142	-	-	0.0142	-	-
Sucralose	µg/l	0.395	± 0.15	0.477	0.119	0.133	121	0.62
Sulfamethoxazole	µg/l	0.0839	± 0.00731	-	-	0.00845	-	-

**Sample: AZ5B**

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
4-Acetylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
4-Formylaminoantipyrine	µg/l	-	± -	-	-	-	-	-
10,11-Dihydro-10,11-Dihydroxycarbamazepine	µg/l	-	± -	-	-	-	-	-
Acesulfame	µg/l	8.99	± 1.33	10.2	2.5	1.53	113	0.79
Amidotrizoic acid	µg/l	1.06	± 0.297	-	-	0.243	-	-
Atenolol	µg/l	0.537	± 0.153	-	-	0.135	-	-
Benzotriazole	µg/l	8.02	± 1.13	-	-	1.13	-	-
Bisoprolol	µg/l	-	± -	-	-	-	-	-
Carbamazepine	µg/l	0.432	± 0.0683	-	-	0.0755	-	-
Cyclamate	µg/l	-	± -	0.069	0.017	-	-	-
Diazepam	µg/l	-	± -	-	-	-	-	-

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Diclofenac	µg/l	2.79 ± 0.254	-	-	0.281	-	-
Ibuprofen	µg/l	- ± -	-	-	-	-	-
Iopamidol	µg/l	9.93 ± 1.84	-	-	1.62	-	-
Metoprolol	µg/l	0.252 ± 0.0771	-	-	0.0853	-	-
Saccharin	µg/l	12.9 ± 0.573	10.2	2.6	0.541	78.8	-5.06
Sotalol	µg/l	0.236 ± 0.0351	-	-	0.0351	-	-
Sucralose	µg/l	8.28 ± 2.08	8.4	2.1	1.84	101	0.06
Sulfamethoxazole	µg/l	0.148 ± 0.0116	-	-	0.0134	-	-

