

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X542/2019

Sample number: X542

Page: 1/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

CHINOOK

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Parametr	Unit	Result	Expanded uncertainty	Method	The scope of accreditation Yes/No
HSI	-	0,261	-	SOP 9 (EBC 7.12)	no
Alpha acids	% hm.	12,78	3,5 % rel.	SOP 5 (EBC 7.7)	yes
Beta acids	% hm.	2,93	3,5 % rel.		yes
cohumulone	% rel.	27,5	-		yes
colupulone	% rel.	53,2	-		yes

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X542/2019

Sample number: X542

Page: 2/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

CHINOOK

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Hop oils

Parametr	Unit	Result	Expanded uncertainty	Method (EBC 7.12)	The scope of accreditation Yes/No
<i>Total oil</i>	<i>g/100 g</i>	<i>1,36</i>	<i>–</i>	<i>SOP 7</i>	<i>no</i>
beta pinene	% rel.	0,50	–	SOP 7	no
myrcene	% rel.	20,1	–	SOP 7	no
limonene	% rel.	0,17	–	SOP 7	no
linalool	% rel.	0,27	–	SOP 7	no
geraniol	% rel.	0,22	–	SOP 7	no
2-undecanone	% rel.	0,42	–	SOP 7	no
caryophyllene	% rel.	11,8	–	SOP 7	no
farnesene	% rel.	< 0,10	–	SOP 7	no
humulene	% rel.	22,6	–	SOP 7	no
selinenes	% rel.	5,88	–	SOP 7	no
caryophyllenepoxide	% rel.	0,05	–	SOP 7	no
humulenepoxide II	% rel.	0,13	–	SOP 7	no

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X543/2019

Sample number: X543

Page: 1/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

CASCADE

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Parametr	Unit	Result	Expanded uncertainty	Method	The scope of accreditation Yes/No
HSI	-	0,266	-	SOP 9 (EBC 7.12)	no
Alpha acids	% hm.	7,94	3,5 % rel.	SOP 5 (EBC 7.7)	yes
Beta acids	% hm.	5,11	3,5 % rel.		yes
cohumulone	% rel.	29,4	-		yes
colupulone	% rel.	50,1	-		yes

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X543/2019

Sample number: X543

Page: 2/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

CASCADE

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Hop oils

Parametr	Unit	Result	Expanded uncertainty	Method (EBC 7.12)	The scope of accreditation Yes/No
<i>Total oil</i>	<i>g/100 g</i>	<i>1,03</i>	<i>–</i>	<i>SOP 7</i>	<i>no</i>
beta pinene	% rel.	1,05	–	SOP 7	no
myrcene	% rel.	41,4	–	SOP 7	no
limonene	% rel.	0,34	–	SOP 7	no
linalool	% rel.	0,38	–	SOP 7	no
geraniol	% rel.	0,09	–	SOP 7	no
2-undecanone	% rel.	0,13	–	SOP 7	no
caryophyllene	% rel.	7,91	–	SOP 7	no
farnesene	% rel.	6,46	–	SOP 7	no
humulene	% rel.	16,7	–	SOP 7	no
selinenes	% rel.	2,81	–	SOP 7	no
caryophyllenepoxide	% rel.	0,13	–	SOP 7	no
humulenepoxide II	% rel.	0,22	–	SOP 7	no

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X545/2019

Sample number: X545

Page: 1/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

CENTENNIAL

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Parametr	Unit	Result	Expanded uncertainty	Method	The scope of accreditation Yes/No
HSI	-	0,277	-	SOP 9 (EBC 7.12)	no
Alpha acids	% hm.	9,93	3,5 % rel.	SOP 5 (EBC 7.7)	yes
Beta acids	% hm.	3,66	3,5 % rel.		yes
cohumulone	% rel.	25,8	-		yes
colupulone	% rel.	50,1	-		yes

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X545/2019

Sample number: X545

Page: 2/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

CENTENNIAL

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Hop oils

Parametr	Unit	Result	Expanded uncertainty	Method (EBC 7.12)	The scope of accreditation Yes/No
<i>Total oil</i>	<i>g/100 g</i>	<i>2,31</i>	<i>–</i>	<i>SOP 7</i>	<i>no</i>
beta pinene	% rel.	1,33	–	SOP 7	no
myrcene	% rel.	52,3	–	SOP 7	no
limonene	% rel.	0,43	–	SOP 7	no
linalool	% rel.	0,68	–	SOP 7	no
geraniol	% rel.	0,41	–	SOP 7	no
2-undecanone	% rel.	0,03	–	SOP 7	no
caryophyllene	% rel.	7,13	–	SOP 7	no
farnesene	% rel.	< 0,10	–	SOP 7	no
humulene	% rel.	13,8	–	SOP 7	no
selinenes	% rel.	0,43	–	SOP 7	no
caryophyllenepoxide	% rel.	0,10	–	SOP 7	no
humulenepoxide II	% rel.	0,15	–	SOP 7	no

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X546/2019

Sample number: X546

Page: 1/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

CTZ (COLUMBUS)

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Parametr	Unit	Result	Expanded uncertainty	Method	The scope of accreditation Yes/No
HSI	-	0,251	-	SOP 9 (EBC 7.12)	no
Alpha acids	% hm.	12,91	3,5 % rel.	SOP 5 (EBC 7.7)	yes
Beta acids	% hm.	3,60	3,5 % rel.		yes
cohumulone	% rel.	23,7	-		yes
colupulone	% rel.	51,3	-		yes

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X546/2019

Sample number: X546

Page: 2/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

CTZ (COLUMBUS)

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Hop oils

Parametr	Unit	Result	Expanded uncertainty	Method (EBC 7.12)	The scope of accreditation Yes/No
<i>Total oil</i>	<i>g/100 g</i>	<i>1,35</i>	<i>–</i>	<i>SOP 7</i>	<i>no</i>
beta pinene	% rel.	0,96	–	SOP 7	no
myrcene	% rel.	40,2	–	SOP 7	no
limonene	% rel.	0,35	–	SOP 7	no
linalool	% rel.	0,50	–	SOP 7	no
geraniol	% rel.	0,19	–	SOP 7	no
2-undecanone	% rel.	0,10	–	SOP 7	no
caryophyllene	% rel.	10,7	–	SOP 7	no
farnesene	% rel.	< 0,10	–	SOP 7	no
humulene	% rel.	14,3	–	SOP 7	no
selinenes	% rel.	3,79	–	SOP 7	no
caryophyllenepoxide	% rel.	0,14	–	SOP 7	no
humulenepoxide II	% rel.	0,16	–	SOP 7	no

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X547/2019

Sample number: X547

Page: 1/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

ROBUSTA

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Parametr	Unit	Result	Expanded uncertainty	Method	The scope of accreditation Yes/No
HSI	-	0,251	-	SOP 9 (EBC 7.12)	no
Alpha acids	% hm.	6,58	3,5 % rel.	SOP 5 (EBC 7.7)	yes
Beta acids	% hm.	3,66	3,5 % rel.		yes
cohumulone	% rel.	33,5	-		yes
colupulone	% rel.	56,2	-		yes

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X547/2019

Sample number: X547

Page: 2/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

ROBUSTA

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Hop oils

Parametr	Unit	Result	Expanded uncertainty	Method (EBC 7.12)	The scope of accreditation Yes/No
<i>Total oil</i>	<i>g/100 g</i>	<i>0,97</i>	<i>–</i>	<i>SOP 7</i>	<i>no</i>
beta pinene	% rel.	0,68	–	SOP 7	no
myrcene	% rel.	29,5	–	SOP 7	no
limonene	% rel.	0,24	–	SOP 7	no
linalool	% rel.	0,48	–	SOP 7	no
geraniol	% rel.	0,46	–	SOP 7	no
2-undecanone	% rel.	0,10	–	SOP 7	no
caryophyllene	% rel.	15,8	–	SOP 7	no
farnesene	% rel.	< 0,10	–	SOP 7	no
humulene	% rel.	29,5	–	SOP 7	no
selinenes	% rel.	4,04	–	SOP 7	no
caryophyllenepoxide	% rel.	0,25	–	SOP 7	no
humulenepoxide II	% rel.	0,36	–	SOP 7	no

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X548/2019

Sample number: X548

Page: 1/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

BAČKA

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Parametr	Unit	Result	Expanded uncertainty	Method	The scope of accreditation Yes/No
HSI	-	0,264	-	SOP 9 (EBC 7.12)	no
Alpha acids	% hm.	6,70	3,5 % rel.	SOP 5 (EBC 7.7)	yes
Beta acids	% hm.	3,47	3,5 % rel.		yes
cohumulone	% rel.	33,2	-		yes
colupulone	% rel.	56,2	-		yes

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X548/2019

Sample number: X548

Page: 2/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

BAČKA

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Hop oils

Parametr	Unit	Result	Expanded uncertainty	Method (EBC 7.12)	The scope of accreditation Yes/No
<i>Total oil</i>	<i>g/100 g</i>	<i>0,84</i>	–	<i>SOP 7</i>	<i>no</i>
beta pinene	% rel.	0,81	–	SOP 7	no
myrcene	% rel.	34,4	–	SOP 7	no
limonene	% rel.	0,27	–	SOP 7	no
linalool	% rel.	0,53	–	SOP 7	no
geraniol	% rel.	0,50	–	SOP 7	no
2-undecanone	% rel.	0,12	–	SOP 7	no
caryophyllene	% rel.	14,4	–	SOP 7	no
farnesene	% rel.	< 0,10	–	SOP 7	no
humulene	% rel.	26,2	–	SOP 7	no
selinenes	% rel.	3,07	–	SOP 7	no
caryophyllenepoxide	% rel.	0,27	–	SOP 7	no
humulenepoxide II	% rel.	0,35	–	SOP 7	no

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X549/2019

Sample number: X549

Page: 1/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

AROMA

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Parametr	Unit	Result	Expanded uncertainty	Method	The scope of accreditation Yes/No
HSI	-	0,256	-	SOP 9 (EBC 7.12)	no
Alpha acids	% hm.	7,84	3,5 % rel.	SOP 5 (EBC 7.7)	yes
Beta acids	% hm.	3,93	3,5 % rel.		yes
cohumulone	% rel.	32,7	-		yes
colupulone	% rel.	55,9	-		yes

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature:

**Chemical laboratory
of Hop Research Institute**

Kadaňská 2525, 438 01 Žatec, Czech Republic

www.chizatec.cz

Testing laboratory Nr. 1749 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

Analysis report

Protocol number: X549/2019

Sample number: X549

Page: 2/2

Customer:

PETROVEC DOO
Maršala Tita 14
21470 Bački Petrovac, SERBIA

Data provided by customer:

AROMA

Sample delivered: 25.9.2019

Sample analysed: 26.-27.9.2019

Subject of analysis: raw hops

Hop oils

Parametr	Unit	Result	Expanded uncertainty	Method (EBC 7.12)	The scope of accreditation Yes/No
<i>Total oil</i>	<i>g/100 g</i>	<i>1,35</i>	<i>–</i>	<i>SOP 7</i>	<i>no</i>
beta pinene	% rel.	0,73	–	SOP 7	no
myrcene	% rel.	34,2	–	SOP 7	no
limonene	% rel.	0,25	–	SOP 7	no
linalool	% rel.	0,55	–	SOP 7	no
geraniol	% rel.	0,58	–	SOP 7	no
2-undecanone	% rel.	0,11	–	SOP 7	no
caryophyllene	% rel.	14,0	–	SOP 7	no
farnesene	% rel.	< 0,10	–	SOP 7	no
humulene	% rel.	26,5	–	SOP 7	no
selinenes	% rel.	2,95	–	SOP 7	no
caryophyllenepoxide	% rel.	0,19	–	SOP 7	no
humulenepoxide II	% rel.	0,27	–	SOP 7	no

Notes:

- The results relate to the sample as received by the laboratory.
- The expanded measurement uncertainty is calculated using the coefficient $k = 2$ and corresponds appr. to the level of significance 95 %.
- The analysis results relate only to the test samples.
- Without written approval of the laboratory the document cannot be reproduced in other forms than whole.
- Laboratory activities were performed at the laboratory address.

Analysed by: P. Vondráčková, K. Krofta

Approved by: Ing. Karel Krofta Ph.D.

Date of issue of the Protocol: 30.9.2019

Signature: