SGS INSTITUT FRESENIUS GmbH· Postfach 1261 · 65220 Taunusstein

Pr.Nr. / *Sample ID*: 141255900
Auftrags-Nr. / *Order no.* . 3202852
Kunden-Nr. / *Customer ID*: 10111580

Ms. Dr. Nadine Paul / nt
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Consumer Testing Services
Non Food

Taunusstein, 10/DEC/2014

Prüfbericht Nr. / *Report No*: 3202852-01

Prüfbericht Chemische Parameter nach vorgegebenem Umfang

Analytical report: chemical parameters acc. to client's requirements

Prüfobjekt / ***Test object*** : **Klassische Absinthe Fontaine AAA / *Classic Absinthe Fountain AAA***

Artikelnummer / ***Item no.*** : /

Allgemeine Angaben / *General information*

Auftragserteilung/ *Ordering date* : 20/NOV/2014

Probeneingang/ *Sample receipt* : 21/NOV/2014

Prüfzeitraum/ *Testing period* : 26/NOV/2014 – 04/DEC/2014

Zusammenfassung der Analysenergebnisse / Summary of results

Geprüfte Parameter Prüfanforderungen erfüllt? / *Overall assessment*	**ja / *pass***

Parameter ***Parameter***	**Bewertungsgrundlage** ***Basis of assessment***	**Grenz- bzw. Orientierungswerte** ***Limits***	**Anforderungen erfüllt?** ***Assessment***
Sensorische Prüfung *Sensory test*	LFGB, Verordnung (EG) Nr. 1935/2004 DIN 10955 *LFGB, Regulation (EC) No. 1935/2004* *DIN 10955*	Unzulässige Beeinträchtigung ab einer Bewertung mit der Note 3 (deutlich fremdartig *distinct influence starting grade 3*	**ja / *pass***
Blei- & Cadmiumlässigkeit für befüllbare Gegenstände *Release of lead and cadmium for fillable items*	**§ 31 LFGB in Anlehnung an DIN 51032:1986** *§ 31 LFGB referring to DIN 51032:1986:*	Blei: max. 1,5 mg/l Cadmium: max. 0,1 mg/l *Lead: max. 4.0 mg/l* *Cadmium: max. 0.3 mg*	**ja / *pass***
Spezifische Metalllässigkeit *Specific metal release*	§ 31 LFGB C.o.E. Resolution CM/RES(2013)9	siehe Untersuchungsergebnisse *see test results*	**ja / *pass***

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Die Prüfergebnisse beziehen sich auf die untersuchten Proben. Die Veröffentlichung und Vervielfältigung unserer Prüfberichte und Gutachten zu Werbezwecken sowie deren auszugsweise Verwendung in sonstigen Fällen bedürfen unserer schriftlichen Genehmigung. Alle Dienstleistungen werden auf Grundlage der anwendbaren Allgemeinen Geschäftsbedingungen der SGS, die auf Anfrage zur Verfügung gestellt werden, erbracht.

Geschäftsführer: Vincent Giesue Furnari, Aufsichtsratvorsitzender: Dirk Hellemans, Sitz der Gesellschaft: Taunusstein, HRB 21543 Amtsgericht Wiesbaden

Prüfbericht Nr. / *Analytical report no.* 3202852-01

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Ausführlichere Informationen zu dieser Prüfung entnehmen Sie bitte den folgenden Seiten.
Die durchgeführten Prüfungen dienen zur stichpunktartigen Sicherstellung der Produktqualität im Hinblick auf die Einhaltung gesetzlicher Grenzwerte sowie vereinbarter und marktüblicher Orientierungswerte. Die Prüfung erfolgt nicht notwendigerweise auf homogener Werkstoffebene und erhebt bei der Auswahl der Teilproben keinen Anspruch auf Vollständigkeit.

For more information please refer to the next pages.
The performed analyses serve as random assurance of product quality regarding the compliance with legally binding limits as well as arranged and commercially available benchmarks. The analysis is not necessarily performed on homogeneous material level and does not claim completeness with the selected subsamples.

1. Beurteilung / *Assessment*

Auftragsgemäß wurde die Probe hinsichtlich der Parameter Sensorik, Blei- & Cadmiumlässigkeit für befüllbare Gegenstände sowie spezifischer Metalllässigkeit geprüft.

In den Untersuchungspunkten entspricht die Probe den Maßgaben des LFGB sowie der Verordnung (EG) Nr. 1935/2004.

According to your order the sample was tested regarding sensory test, release of lead and cadmium for fillable items and specific metal release.

The sample meets the requirements of LFGB and Regulation (EC) No. 1935/2004 in the tested items.

SGS INSTITUT FRESENIUS GmbH

i. V. Dr. Nadine Paul
(Team Leader)

i. A. Claas Isemer
(Project Manager)

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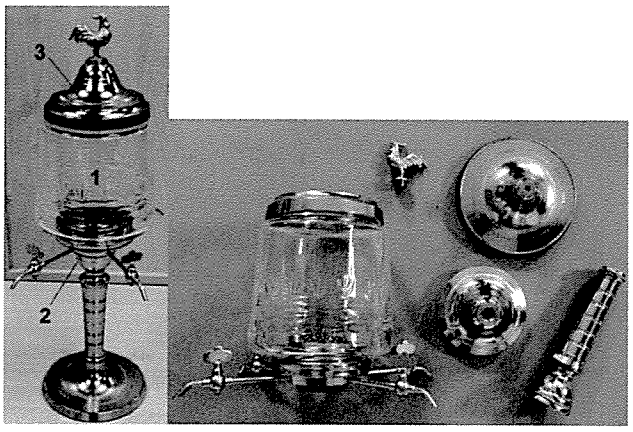
2. Fotodokumentation / *Photo documentation*



Teilprobe *Subsample*	Probenbeschreibung *Sample designation*
1 (141273375)	**Glas Behälter** *glass tank*
2 (141273376)	**Metallauslass** *metal outlet*
3 (141273377)	**Metalldeckel** *metal lid*

3. Kurzangaben zu den Untersuchungsmethoden/ *Applied analytical techniques*

Migration *Migration*	**EN 1186**
Sensorische Prüfung *Sensory test*	**DIN 10955**
Blei- und Cadmiumlässigkeit *Release of lead and cadmium*	**in Anlehnung an ASU-Methode 80.03-1 bis -4 nach § 64 LFGB mit 4 % Essigsäure als Prüfflüssigkeit** *based on ASU-method 80.03-1 to -4 acc. § 64 LFGB with 4% acetic acid as solvent*
Schwermetalle *heavy metals*	**Induktiv gekoppelte Plasma-Atomemissionsspektrometrie gemäß EN ISO 11885 bzw. ICP-MS** *Inductively coupled plasma atomic emission spectrometry acc. EN ISO 11885 resp. ICP-MS*

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4. Untersuchungsergebnisse / *Analytical results*

4.1 Sensorische Prüfung / *Sensory test*

Bedingungen / *Conditions*:

Wasser / *Water*	2	Stunden / *hours*	40 °C	Fontaine wurde befüllt und mit Deckel verschlossen. Simulanz wurde anschließend durch Metallauslass abgelassen. Das Verhältnis von Oberfläche zu Volumen beträgt ca. 5 dm^2/l. *Fountain was filled and closed with lid. Afterwards simulant was let off the outlet. The ratio of surface to volume is approx. 5 dm^2/l.*

Teilprobe / *Subsample*	**1+2+3**
Median Geruch / *Odour*	0,5
Median Geschmack / *Taste*	2,0

Median gerundet auf 0,5 Intensitätseinteilungen
Median rounded at 0.5 grades

Legende / *Key*:	0	=	praktisch unverändert / *no change*
	1	=	sehr leicht fremdartig / *very slight off odour / off-taste*
	2	=	leicht fremdartig / *slight off- odour / off-taste*
	3	=	deutlich fremdartig / *distinct off- odour / off-taste*
	4	=	stark fremdartig / *strong off-odour / off-taste*

Bei einer Intensitätsbeurteilung von 0 bis 2,5 liegt keine bzw. eine noch tolerierbare organoleptische Beeinflussung im Sinne der Verordnung (EG) Nr. 1935/2004 vor.

With an assessment from 0 to 2.5 there is no, respectively a tolerable organoleptic impact existent in terms of Regulation (EC) No. 1935/2004.

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4.2 Blei- und Cadmiumlässigkeit für füllbare Gegenstände / *Release of lead and cadmium for fillable items*

Bedingungen / *Conditions*:
4 % Essigsäure/ *4 % acetic acid* 24 Stunden/ *Hours* 22 °C

Teilprobe/ *Subsample*		1
Oberfläche:Volumen/ *Area:surface*	dm²/l	5
Blei / *Lead*	mg/l	0,04
Cadmium / *Cadmium*	mg/l	< 0,001

4.3 Spezifische Metalllässigkeit / *Specific metal release*

Bedingungen / *Conditions*:
Wasser / *water* 24 Stunden / *hours* 40 °C

Teilprobe / *Subsample*		**2 Summe 1. + 2. Kontakt** *Sum 1st + 2nd contact*	**Anforderung / *Requirements****
Silber (Ag) / *Silver (Ag)*	mg/kg	< 0,005	max. 0,56
Aluminium (Al) / *Aluminium (Al)*	mg/kg	< 1	max. 35
Cobalt (Co) / *Cobalt (Co)*	mg/kg	< 0,01	max. 0,14
Chrom (Cr) / *Chromium (Cr)*	mg/kg	< 0,01	max. 1,75
Kupfer (Cu) / *Copper (Cu)*	mg/kg	< 1	max. 28
Eisen (Fe) / *Iron (Fe)*	mg/kg	< 1	max. 280
Mangan (Mn) / *Manganese (Mn)*	mg/kg	< 0,01	max. 12,6
Molybdän (Mo) / *Molybdenum (Mo)*	mg/kg	< 0,005	max. 0,84
Nickel (Ni) / *Nickel (Ni)*	mg/kg	0,40	max. 0,98
Zinn (Sn) / *Tin (Sn)*	mg/kg	< 1	max. 700
Vanadium (V) / *Vanadium (V)*	mg/kg	< 0,01	max. 0,07
Zink (Zn) / *Zinc (Zn)*	mg/kg	< 1	max.35
Arsen (As) / *Arsenic (As)*	mg/kg	< 0,002	max. 0,014
Barium (Ba) / *Barium (Ba)*	mg/kg	< 0,01	max. 8,4
Beryllium (Be) / *Beryllium (Be)*	mg/kg	< 0,01	max. 0,07
Cadmium / *Cadmium (Cd)*	mg/kg	< 0,002	max. 0,035
Quecksilber (Hg) / *Mercury (Hg)*	mg/kg	< 0,003	max. 0,021
Lithium (Li) / *Lithium (Li)*	mg/kg	0,03	max. 0,336
Blei (Pb) / *Lead (Pb)*	mg/kg	< 0,01	max. 0,07
Antimon (Sb) / *Antimony (Sb)*	mg/kg	< 0,01	max. 0,28
Thallium (Tl) / *Thallium (Tl)*	mg/kg	< 0,0001	max. 0,0007

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*Gemäß CoE Resolution CM/RES(2013)9 darf die Summe aus 1. und 2. Kontakt den SRL nicht um den Faktor 7 überschreiten (in oben stehender Tabelle bereits berücksichtigt) / *According to CoE Resolution CM/RES(2013)9 the sum of 1st and 2nd contact should be less than 7 times the limit value (factor already considered in chart above).*

Teilprobe / *Subsample*		**2** **3. Kontakt** *3rd contact*	**Anforderung** / ***Requirements****
Silber (Ag) / *Silver (Ag)*	mg/kg	< 0,005	max. 0,08
Aluminium (Al) / *Aluminium (Al)*	mg/kg	0,04	max. 5
Cobalt (Co) / *Cobalt (Co)*	mg/kg	< 0,01	max. 0,02
Chrom (Cr) / *Chromium (Cr)*	mg/kg	< 0,01	max. 0,25
Kupfer (Cu) / *Copper (Cu)*	mg/kg	< 0,01	max. 4
Eisen (Fe) / *Iron (Fe)*	mg/kg	< 1	max. 40
Mangan (Mn) / *Manganese (Mn)*	mg/kg	< 0,01	max. 1,8
Molybdän (Mo) / *Molybdenum (Mo)*	mg/kg	< 0,005	max. 0,12
Nickel (Ni) / *Nickel (Ni)*	mg/kg	0,09	max. 0,14
Zinn (Sn) / *Tin (Sn)*	mg/kg	< 1	max. 100
Vanadium (V) / *Vanadium (V)*	mg/kg	< 0,01	max. 0,01
Zink (Zn) / *Zinc (Zn)*	mg/kg	< 1	max. 5
Arsen (As) / *Arsenic (As)*	mg/kg	< 0,002	max. 0,002
Barium (Ba) / *Barium (Ba)*	mg/kg	< 0,01	max. 1,2
Beryllium (Be) / *Beryllium (Be)*	mg/kg	< 0,01	max. 0,01
Cadmium / *Cadmium (Cd)*	mg/kg	< 0,002	max. 0,005
Quecksilber (Hg) / *Mercury (Hg)*	mg/kg	< 0,003	max. 0,003
Lithium (Li) / *Lithium (Li)*	mg/kg	< 0,01	max. 0,048
Blei (Pb) / *Lead (Pb)*	mg/kg	< 0,01	max. 0,01
Antimon (Sb) / *Antimony (Sb)*	mg/kg	< 0,01	max. 0,04
Thallium (Tl) / *Thallium (Tl)*	mg/kg	< 0,0001	max. 0,0001

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Teilprobe / *Subsample*		**3 Summe 1. + 2. Kontakt** *Sum 1st + 2nd contact*	**Anforderung / *Requirements****
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Kupfer (Cu) / *Copper (Cu)*	mg/kg	< 1	max. 28
Eisen (Fe) / *Iron (Fe)*	mg/kg	< 1	max. 280
Mangan (Mn) / *Manganese (Mn)*	mg/kg	< 0,01	max. 12,6
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Nickel (Ni) / *Nickel (Ni)*	mg/kg	0,03	max. 0,98
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Blei (Pb) / *Lead (Pb)*	mg/kg	< 0,01	max. 0,07
Antimon (Sb) / *Antimony (Sb)*	mg/kg	< 0,01	max. 0,28
Thallium (Tl) / *Thallium (Tl)*	mg/kg	< 0,0001	max. 0,0007

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Teilprobe / *Subsample*		**3** **3. Kontakt** *3rd contact*	**Anforderung** / ***Requirements****
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Kupfer (Cu) / *Copper (Cu)*	mg/kg	< 0,01	max. 4
Eisen (Fe) / *Iron (Fe)*	mg/kg	< 1	max. 40
Mangan (Mn) / *Manganese (Mn)*	mg/kg	< 0,01	max. 1,8
Molybdän (Mo) / *Molybdenum (Mo)*	mg/kg	< 0,005	max. 0,12
Nickel (Ni) / *Nickel (Ni)*	mg/kg	0,01	max. 0,14
Zinn (Sn) / *Tin (Sn)*	mg/kg	< 1	max. 100
Vanadium (V) / *Vanadium (V)*	mg/kg	< 0,01	max. 0,01
Zink (Zn) / *Zinc (Zn)*	mg/kg	< 1	max. 5
Arsen (As) / *Arsenic (As)*	mg/kg	< 0,002	max. 0,002
Barium (Ba) / *Barium (Ba)*	mg/kg	< 0,01	max. 1,2
Beryllium (Be) / *Beryllium (Be)*	mg/kg	< 0,01	max. 0,01
Cadmium / *Cadmium (Cd)*	mg/kg	< 0,002	max. 0,005
Quecksilber (Hg) / *Mercury (Hg)*	mg/kg	< 0,003	max. 0,003
Lithium (Li) / *Lithium (Li)*	mg/kg	< 0,01	max. 0,048
Blei (Pb) / *Lead (Pb)*	mg/kg	< 0,01	max. 0,01
Antimon (Sb) / *Antimony (Sb)*	mg/kg	< 0,01	max. 0,04
Thallium (Tl) / *Thallium (Tl)*	mg/kg	< 0,0001	max. 0,0001

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