



Certificate of analyses/Quality statement

Kit name: Teslacigs Innovator 22 Kit
Atomizer: Teslacigs Citrine 22 Tank
Mod: Teslacigs Innovator 22 Mod
Coil: Teslacigs T-A1 0.6 Ohm 25 Watt
E-liquid: ZAZO Z01016008
Testing Period 23.05.2019 - 14.06.2019

Testprocedures/References

Sampling

- Machine for e-cigarettes aerosol generation and recording for routine analysis terms and standard conditions (draft DIN Standards Committee for Food and Agricultural Products NA057-04-01-05 AK)
- Preparations for inhalation, aerodynamic assessment (PharmEur 2.9.18)

Analytics

- Determination of aldehydes and ketones in air via reaction with 2,4-dinitrophenylhydrazine, separation and detection of the derivative method developed by Waters
- Determination of nicotine content by HPLC / UV method , method developed by BioChem Laboratory for biological and chemical analytics
- Determination of metals by AAS/GTT, method developed by Techpharm GmbH or ICP/MS DIN EN ISO 17294-2 / DIN 38406-1

In accordance with DIN-EN-ISO 9001: 2015 and 17025: 2005 samples were taken and tested by qualified laboratories by GMP conditions.

Results correspond with expected values

14.06.2019

Head of Quality Control



Test item	Expected value	Result	Evaluation
Setting e-cigarette			
1. Resistance (Ohm)	0,6	0,6	corresponds
2. Wattage (W)	25	25	
3. Airflow	Fully opened	Fully opened	
Setting sample			
1. Puff duration	2 sec +/- 0,1	2	corresponds
2. Puff frequency	2/minute	2	
3. Number of puffs	60	60	
4. Negative pressure	200mbar	200 mbar	
Nicotine content *1			
1. Volume e-liquid puffed/60 puffs	>0,2 ml	0,7	corresponds
2. mg nicotin/10ml puffed*2	Minimum 10% = 16 mg	40 % (64 mg)	
3. mg nicotin/60 puffs*3		4,7	
Aldehyde + Keton-Emissions*4	(MAK mg/m3) -> µg /60 puffs		
1. Formaldehyde	(0,370) < 83	8,3	corresponds
2. Acetaldehyde	(91) < 20.475	15,2	
3. Acroleine	(0,25) -> < 56	<0,1	
4. Actone	(1200) -> 270.000	0,6	
5. Others (Propionaldehyd, Crontonaldehyd,...)	Single value < 50	8,4	
Metal-Emissions*5	Mcg/60puffs*6		
1. Cr (Chromium)	2,9	0,4	corresponds
2. Ni (Nickel)	6,0	0,4	
3. AS (Arsenic)	1,9	<0,1	
4. Cd (Cadmium)	3,4	<0,03	
5. Hg (Mercury)	1,2	<0,02	
6. PB (Lead)	5,0	<0,1	

*1: E-Cigarette working group discussion paper on submission of notification under article 20 of Directive 2014/40/EU Chapter 4

*2: Nicotine dose in total by inhalation content of 10ml e-liquid under standard conditions

*3: Nicotine uptake of standard smoker smoking 6 cigarettes (10 puffs/cigarette)

*4: E-Cigarette working group discussion paper on submission of notification under article 20 of Directive 2014/40/EU Chapter 6.

Calculation expected value: MAK-Wert (mcg/m3) *0,225 (=breath volume puff duration 60 puffs= 30 minutes)

*5: E-Cigarette working group discussion paper on submission of notification under article 20 of Directive 2014/40/EU Chapter 3 e-cigarettes/ Chapter 6 e-liquids

*6: Inhalation maximum/day according Guideline for Elemental Impurities Draft 23.Juli.2013 Appendix 2, Table 2.1

Appendix 1: Method for Establishing Exposure Limits: 841: PDE = 1 mg/kg/day x 50 kg/[1 x 10 x 10 x 1 x 10] = 0.05 mg/day = 50 µg/day -> safety level = 1000



Picture of tested device



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