Certificate of analysis / Quality statement

Kit name: **Teslacigs Shinyo Kit**

Atomizer: **Teslacigs Resin Tank**

Mod: **Teslacigs Shinyo Mod**

Coil: **TS-XX 0,18 Ohm**

E-liquid: **ZAZO Z01016008**

Testing Period **15.04.2019 – 24.04.2019**

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 based on safety level 100 for Chromium with expected values

24.04.2019

Head of Quality Control

Test item	Expected value	result	evaluation
Setting e-cigarette 1. Resistance (Ohm) 2. Wattage (W) 3. Airflow	 0,18 70 Fully opened	 0,18 70 Fully opened	corresponds
Setting sample 1. Puff duration 2. Puff frequency 3. Number of puffs 4. Negative pressure	 2 sec +/- 0,1 2/minute 60 200mbar	 2 2 60 200 mbar	corresponds
Nicotin content *1 1. Volume e-liquid puffed/60 puffs 2. mg nicotin/10ml puffed*2 3. mg nicotin/60 puffs*3	 >0,2 ml Minimum 10% = 16 mg	 2,5 61 % (97 mg) 24,5	corresponds
Aldehyde + Keton-Emissions*4 1. Formaldehyde 2. Acetaldehyde 3. Acroleine 4. Actone 5. Others (Propionaldehyd, Crontonaldehyd,….)	(MAK mg/m3)) -> µg /60 puffs (0,370) < 83 (91) < 20.475 (0,25) -> < 56 (1200) -> 270.000 Single value < 50	 13,3 13,9 1,4 2,4 11,5	corresponds
Metal-Emissions*5 1. Cr (Chromium) 2. Ni (Nickel) 3. AS (Arsenic) 4. Cd (Cadmium) 5. Hg (Mercury) 6. PB (Lead)	Mcg/60puffs*6 2,9 6,0 1,9 3,4 1,2 5,0	 6,4* <0,2** <0,1** <0,03** <0,01** <0,1**	*corresponds with safety level 100 instead of recomennded safety level 1000 **corresponds with safety level 1000

*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

Teslacigs Shinyo Kit