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SHENZHEN ZUN YI PIN TECHNOLOGY CO., LTD Applicant:

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The following sample was submitted and identified by/on behalf of the client as:

Teslacigs PUNK POD KIT Sample Name: Model No.: Teslacigs PUNK POD KIT Atomizer: Teslacigs PUNK POD

Tank: 1.2ml PCTG

Coil: 1.4 ohm SS316

Power level in testing: Voltage/Wattage of tested sample is un-adjustable

Teslacigs PUNK mod

Adjustable air inlet or not: No

MOD:

Trade Mark: Teslacigs Sample Received Date: 2019.10.16

2019.10.16-2019.10.21 **Testing Period:**

Test Method: Please refer to the following page(s). Test Result(s): Please refer to the following page(s).

Remark: The report is to supersede test report TCT191016C007-1.

Tes	Test Items				
1	Carbonyl Compounds: Formaldehyde, Acetaldehyde, Acrolein, Crotonaldehyde	Emission testing according to			
2	Metals: Aluminum, Chromium, Iron, Nickel, Tin, Lead, Cadmium, Arsenic, Antimony,	Article 20 of			
	Mercury, Copper	Tobacco Product			
3	Nicotine consistency	Directive (2014/40/EU)			

Checked by

Noel Yin

Signed for and on behalf of TCT





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Test Results:

Test Condition for test items except Nicotine consistency test:

With reference to the CORESTA RECOMMENDED METHOD Nº 81 method parameter, Afnor standardization XP D90-300-3, International Standard ISO 20768:2018 and PD CEN/TR 17236:2018, a smoke machine was used to collect the vapor.

Puff Duration	3.0s±0.1s				
Puff Volume	55mL±0.3mL				
Puff Frequency	30s±0.5s				
Puff of Each Group	20				
Group Interval Time	300s±120s				
Maximum Flow	18.5mL/s±1.0mL/s				
Pressure Drop	< 50hPa				
Group	5				
Total Number of Puff	100				
Total Duration of Vaporization	300s				
	•				

The temperature and relative humidity of the test atmosphere during machine preparation and testing were kept within the following limits: temperature $\pm 2^{\circ}$ C, relative humidity $\pm 5\%$



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1. Carbonyl Compounds Content(s)

Method: The volatile aldehydes are extracted from the aerosol by bubbling each puff through an impactor containing an acidified aqueous solution of 2,4-DNPH. The samples are analyzed by reverse phase high-performance liquid chromatography and determined using a UV detector.

Test Item	CAS No.	Unit	MDL	LOQ	Content(s)		
rest item					No.1		
Formaldehyde	50-00-0	ug/100puffs	0.667	2	ND ND		
Acetaldehyde	75-07-0	ug/100puffs	0.667	2	3.38		
Acrolein	107-02-8	ug/100puffs	0.667	2	ND		
Crotonaldehyde	4170-30-3	ug/100puffs	0.667	2	ND		

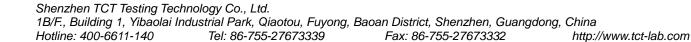
Note: - ug = Microgram

- ND = Not Detected (lower than MDL)

- MDL = Method Detection Limit

- LOQ = Limit of Quantitation

- E-Liquid Used: E-liquid B (AFNOR XP D90-300-3)





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2. Metals Content(s)

Method: With reference to Afnor XP D90-300-3, the aerosol was absorbed using a Cambridge filter, and the Cambridge filter was removed and placed in an Erlenmeyer flask, added to 20 mL of 5%(v/v) Nitric acid solution, shaken at 210 rpm for 60 min, filtered, and analyzed by ICP-MS.

Toot Itom	CASNo	Hait	MDI	100	Content(s)		
Test Item	CAS No. Unit		MDL	LOQ	No.1		
Aluminum(Al)	7429-90-5	ug/100puffs	0.025	0.25	0.44		
Chromium(Cr)	7440-47-3	ug/100puffs	0.005	0.05	ND ND		
Iron(Fe)	7439-89-6	ug/100puffs	0.005	0.05	0.178		
Nickel(Ni)	7440-02-0	ug/100puffs	0.025	0.25	ND		
Tin(Sn)	7440-31-5	ug/100puffs	0.25	2.5	ND		
Lead(Pb)	7439-92-1	ug/100puffs	0.025	0.25	ND		
Cadmium(Cd)	7440-43-9	ug/100puffs	0.005	0.05	ND (A)		
Arsenic(As)	7440-38-2	ug/100puffs	0.025	0.25	ND ND		
Antimony(Sb)	7440-36-0	ug/100puffs	0.025	0.25	ND		
Mercury(Hg)	7439-97-6	ug/100puffs	0.025	0.25	ND		
Copper(Cu)	7440-50-8	ug/100puffs	0.025	0.25	ND		

Note: - ug = Microgram

- ND = Not Detected (lower than MDL)

- MDL = Method Detection Limit

- LOQ = Limit of Quantitation

- E-Liquid Used: E-liquid B (AFNOR XP D90-300-3)



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3. Nicotine Consistency Test

Test Condition: With reference to the CORESTA RECOMMENDED METHOD № 81 method parameter and Afnor standardization XP D90-300-3, a smoke machine was used to collect the vapor.

Puff Duration	3.0s±0.1s			
Puff Volume	55mL±0.3mL			
Puff of Each Group	20			
Maximum Flow	18.5mL/s±1.0mL/s			
Pressure Drop	< 50hPa			

The temperature and relative humidity of the test atmosphere during machine preparation and testing were kept within the following limits: temperature $\pm 2^{\circ}$ C, relative humidity $\pm 5\%$

Method: A reference liquid was prepared. A pharmaceutical nicotine inhaler was used as a comparator. Products were attached to a smoke machine, and the aerosol was collected in Cambridge filter pads. After trapping and solvent extraction, solution was analyzed by GC-MS and nicotine was dosed by comparing the areas obtained on the MS detector with those of standard solutions prepared in the laboratory under concentration conditions surrounding those of the samples.

Sample No.	Nicotine(CAS No.:54-11-5) Contents(mg/20Puffs)						Total
Sample No.	Group 1*	Group 2	Group 3*	Group 4	Group 5*	AVG	(mg/100puffs)
No.1	0.993	0.998	0.983	0.968	0.974	0.983	4.91
Deviation(%)	1.0	<u>-</u>	0.0	-	0.9	-	

Note: - mg = milligram

- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit = 0.01mg/20Puffs
- LOQ = Limit of Quantitation = 0.1mg/20Puffs
- 1group = 20puffs
- * Values used for determination of consistency of nicotine emission
- E-Liquid Used: E-liquid A (AFNOR XP D90-300-3)
- Under the conditions of the test and with reference to AFNOR XP D90-300-3, the electronic cigarette delivers a dose of nicotine at consistent levels.

*** End of Report ***

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