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Applicant: BIDI Vapor IIc

Address: 4460 Old Dixie Hwy Grant, FL 32949, USA

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

Sample Name: BIDI STICK
Model No.: BIDI STICK
E-liquid Used: Blazing Vibe

Tank: 1.4ML

Coil: Cotton Coil, 2.5ohm

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

Sample Received Date: 2020.05.07

Testing Period: 2020.05.07—2020.05.13

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 TCT200507C045-2.

Tes	et Items	Test Requested
1	Carbonyl Compounds: Formaldehyde, Acetaldehyde, Acrolein, Crotonaldehyde	
2	Metals: Aluminum, Chromium, Iron, Nickel, Tin, Lead, Cadmium, Arsenic, Antimony	Emission testing
3	Nicotine consistency	according to
4	Diacetyl and Pentane 2,3 dione	Article 20 of
5	Ethylene Glycol and Diethylene Glycol	Tobacco Product
6	Specific Nitrosamines: N-nitrosonornicotine(NNN),	Directive
0	4-(N-methylnitrosamino)-1-(3-pyridyl)-1-butanone(NNK)	(2014/40/EU)
7	VOC substances: Toluene, Benzene, 1,3-Butadiene, Isoprene	

Checked by

Noel Yin

Signed for and on behalf of TCT

Kim Zhang

Technical Manager





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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	CACNE	Unit	MDL	100	Content(s)		
rest item	CAS No.			LOQ	No.1		
Formaldehyde	50-00-0	ug/100puffs	0.667	2	8.86		
Acetaldehyde	75-07-0	ug/100puffs	0.667	2	3.75		
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





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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.

Tool Hors	CAS No.	Mait	MDI	100	Content(s)
Test Item	CAS NO.	Unit	MDL	LOQ	No.1
Aluminum(Al)	7429-90-5	ug/100puffs	0.025	0.25	ND ND
Chromium(Cr)	7440-47-3	ug/100puffs	0.005	0.05	ND ND
Iron(Fe)	7439-89-6	ug/100puffs	0.005	0.05	ND
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
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

Note: - ug = Microgram

ND = Not Detected (lower than MDL)

- MDL = Method Detection Limit

- LOQ = Limit of Quantitation

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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.

Comple No		Total					
Sample No.	Group 1*	Group 2	Group 3*	Group 4	Group 5*	AVG	(mg/100puffs)
No.1	1.12	1.13	1.12	1.12	1.13	1.12	5.62
Deviation(%)	0	-	0.7	-	0.4	-	

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
- 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.



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4. Diacetyl and Pentane 2,3 dione Content(s)

Method: The principle of collection and trapping of Diacetyl and Pentane 2,3 dione resides in the generation of aerosols (via a vaporisation system or an electronic cigarette) and the driving of these aerosols to a Diacetyl and Pentane 2,3 dione trapping system: a bubbler containing Ethanol. Then analyze the trapped solutions by GC-MS.

Toot Itom	CASNo	Unit	MDL	LOQ	Content(s)		
Test Item	CAS No.	Offic	MDL	LOQ	No.1		
Diacetyl	431-03-8	ug/100puffs	0.546	5.46	ND ND		
Pentane 2,3 dione	600-14-6	ug/100puffs	0.546	5.46	ND		

Note: - ug = Microgram

- ND = Not Detected (lower than MDL)

- MDL = Method Detection Limit

- LOQ = Limit of Quantitation

5. Ethylene Glycol and Diethylene Glycol Content(s)

Method: 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 Glycols were 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.

Test Item	CAS No.	Unit	MDL	LOQ	Content(s)		
	CAS NO. Unit	Unit		LOQ	No.1		
Ethylene Glycol	107-21-1	ug/100puffs	0.667	2	ND		
Diethylene Glycol	111-46-6	ug/100puffs	0.667	2	ND ND		

Note: - ug = Microgram

- ND = Not Detected (lower than MDL)

- MDL = Method Detection Limit



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6. Specific Nitrosamines Content(s)

Method: The vapor was trapped on a Cambridge filter, after addition of an internal standard, the total particulate matter collected on the Cambridge filter was extracted into ammonium acetate solution using a shaker for a period time. The extract was syringe filtered through a 0.45 µm PTFE column directly into an auto sampler vial. The samples are subjected to LC-MS/MS.

Test Item	CAS No.	Unit	MDL	LOQ	Content(s)	
rest item	CAS NO.	Offic	IVIDE	LOQ	No.1	
N-nitrosonornicotine(NNN)	80508-23-2	ug/100puffs	0.004	0.04	ND ND	
4-(N-methylnitrosamino)-1-(64004 04 4	/1.00p.uffa	0.004	0.04	ND	
3-pyridyl)-1-butanone(NNK)	64091-91-4	ug/100puffs	0.004	0.04	ND	

Note: - ug = Microgram

- ND = Not Detected (lower than MDL)

- MDL = Method Detection Limit



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7. VOC substances content(s)

Method: The principle of collection and trapping of VOC substances resides in the generation of aerosols (via a vaporisation system or an electronic cigarette) and the driving of these aerosols to a VOC substances trapping system: a bubbler containing Methanol. Then analyze the trapped solutions by GC-MS.

Test Item	CAS No. Uni	Linit	MDL	LOQ	Content(s)		
		Offic				No.1	
Toluene	108-88-3	ug/100puffs	0.667	2	(0)	ND	KO.
Benzene	71-43-2	ug/100puffs	0.667	2		ND	
1,3-Butadiene	106-99-0	ug/100puffs	0.667	_ 2		ND	
Isoprene	78-79-5	ug/100puffs	0.667	2		ND	

Note: - ug = Microgram

- ND = Not Detected (lower than MDL)

- MDL = Method Detection Limit



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Photo(s) of the sample(s)



*** End of Report ***

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