



V K Consulting

The pen is mightier than the sword

Report on GC/MS analysis of samples VKC-251013-01 (liquid nicotine) VKC-251013-02 (liquid nicotine NN) from Pink Mule

The samples submitted were:

Pink Mule nicotine, blinded as sample VKC-25-10-13-01 and tested by the lab as BC15099

Pink Mule NN nicotine, blinded as sample VKC-25-10-13-02 and tested by the lab as BC15100

No chemicals other than nicotine (CAS 54-11-5) were detected in either sample. While testing for compliance with EP standards for nicotine purity is beyond the scope of this process, it does indicate that the nicotine supplied is of high purity, and free from significant chemical contamination.

Di-ethylene glycol, ethylene glycol and diacetyl were not detected in the samples (with a limit of detection of 0.1%).

Product	Expected Nicotine	Measured Nicotine	Difference
Pink Mule	100%	99.4%	-0.6%
Pink Mule NN	100%	100.5%	+0.5%

Nicotine is measured with a 5% limit of precision (i.e. the measurement is within 95 and 105% of the result reported. As such the results are suggestive that the result is 100%, but the precise level cannot be determined.

The measured nicotine level falls within the acceptable variability (9% variation from declared level, rounded to the nearest tenth of a percent).

Action points:

- None

Sample from Pink Mule

Picture of sample

Name of product Eliquid

Base liquid UNKNOWN
Flavour Pink Mule
Nicotine content unknown
Batch number n/a
Date transferred
Sample number VKC-251013-01
Lab number
Date of testing

Details from label

No information – nic base



Observations

Reference sample



West Yorkshire Analytical Service

West Yorkshire Analytical Services
PO Box 11, Nepshaw Lane South, Morley, Leeds LS27 0UQ
Tel: 0113 383 7550 Fax: 0113 383 7551
Email: analyst@wyjs.org.uk
Internet Web Site: www.analyst.wyjs.org.uk

Dr. Duncan Campbell B.Sc., D. Phil., M.Chem.A., C.Chem.,
F.R.S.C., Registered Analytical Chemist,
Public Analyst and Agricultural Analyst

Report No: BC15099.DOC cmh

04 December 2013

K Devlin
V K Consulting
Unit 11
Clarion Court
Llansamlet Enterprise Park
Swansea,
SA6 8RF

Sample Description: E liquid for electronic cigarettes VKC-251013-
Sample Number: 01
Laboratory Reference: BC15099
Submitted by: Vicky Grant
Date Received: 25 November 2013
Date analysis completed: 03 December 2013

TEST REPORT

The above sample has been analysed for nicotine by isotope-dilution gas chromatography-mass spectrometry and for other compounds and contaminants by gas chromatography-mass spectrometry with results as under.

Sample description	Parameter	Result
Clear straw-coloured liquid	Nicotine	99.4 g/100g

Detection limit for nicotine is 0.01 g/100ml, 0.01 g/100g, 0.1 mg/ml

Other compounds detected

None found

Note – The compounds listed above under "other compounds" have been tentatively identified from their mass spectra and have not been confirmed by comparison with standard materials.

Ethylene glycol (CAS No 107-21-1), diethylene glycol (Digol, CAS No 111-46-6) and diacetyl (CAS No 431-03-8) were not detected in the sample (detection limit 0.1% approximately)

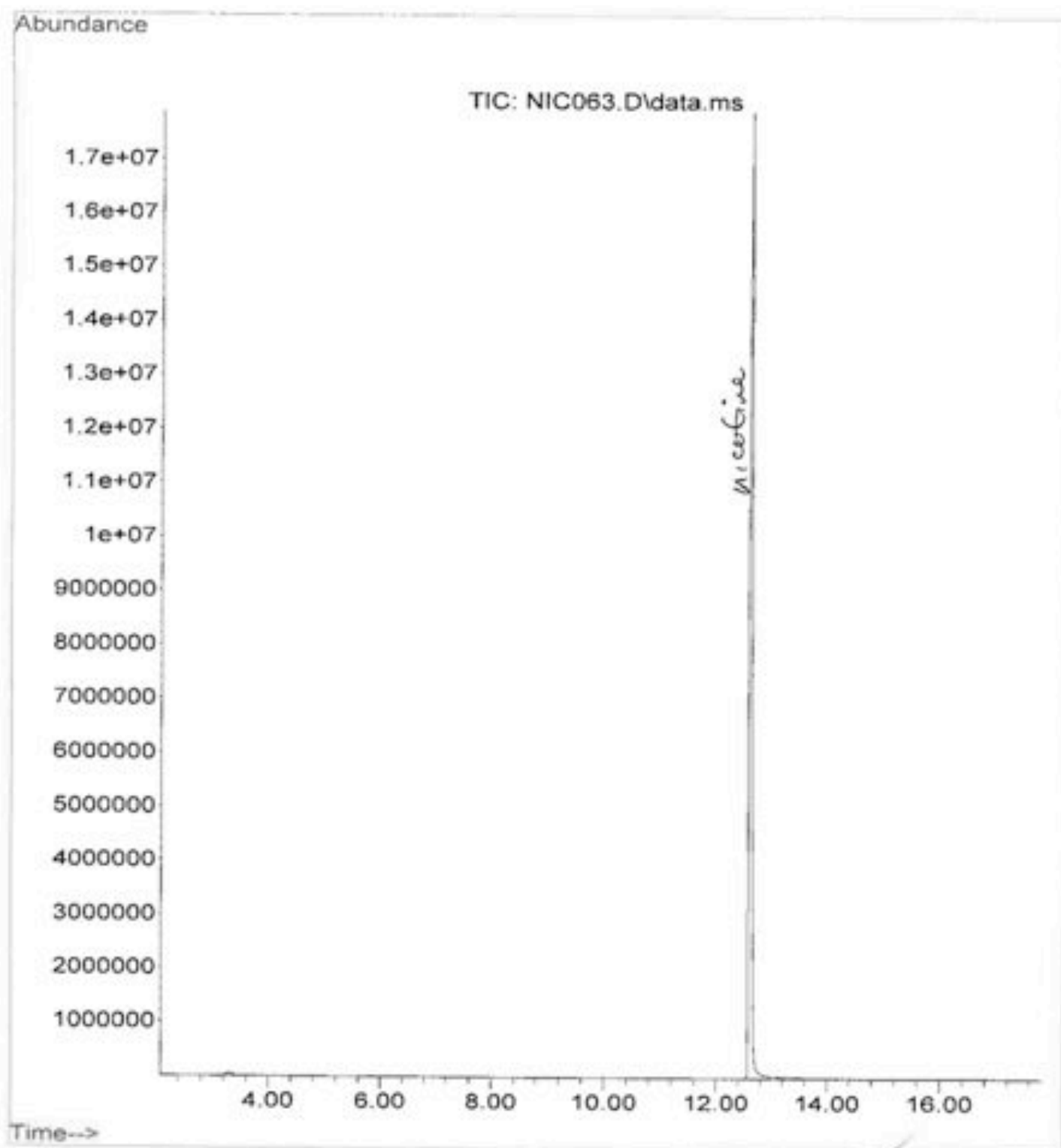
If I can be of any further assistance regarding these results, please do not hesitate to contact me.

C M Hunt B.Sc., M.Chem.A., C.Chem., F.R.S.C.,
Registered Analytical Chemist
Senior Principal Analyst

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Sample Name BC15099



Sample testing

Sample from Pink Mule

Picture of sample

Name of product Eliquid

Base liquid UNKNOWN
Flavour Pink Mule NN
Nicotine content unknown
Batch number n/a
Date transferred
Sample number VKC-251013-02
Lab number BC15100
Date of testing 04/12/13



Details from label

No information – nic base

Observations

Reference sample



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Report No: BC15100.DOC cmh

04 December 2013

K Devlin
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Unit 11
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SA6 8RF

Sample Description: E liquid for electronic cigarettes VKC-251013-
Sample Number: 02
Laboratory Reference: BC15100
Submitted by: Vicky Grant
Date Received: 25 November 2013
Date analysis completed: 03 December 2013

TEST REPORT

The above sample has been analysed for nicotine by isotope-dilution gas chromatography-mass spectrometry and for other compounds and contaminants by gas chromatography-mass spectrometry with results as under.

Sample description	Parameter	Result
Clear straw-coloured liquid	Nicotine	100.5g/100g

Detection limit for nicotine is 0.01 g/100ml, 0.01 g/100g, 0.1 mg/ml

Other compounds detected

None found

Note – The compounds listed above under "other compounds" have been tentatively identified from their mass spectra and have not been confirmed by comparison with standard materials.

Ethylene glycol (CAS No 107-21-1), diethylene glycol (Digol, CAS No 111-46-6) and diacetyl (CAS No 431-03-8) were not detected in the sample (detection limit 0.1% approximately)

If I can be of any further assistance regarding these results, please do not hesitate to contact me.

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Sample Name BC15100.1

