

VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster Certification Solution

On 09/29/2015, an ethanol solution was prepared by Jeffery Dukette for use as a DataMaster certification solution. The solution was prepared per standard laboratory practice and assigned the lot number 15-17-040 and an expiration date of 09/29/2016.

On 09/29/2015 and 10/01/2015, the solution was analyzed against calibration version VFL09292015.cal and VFL10012015.cal. Analysis of the solution was performed using headspace gas chromatography. The instrument was calibrated prior to analyses. It was found to have met required quality assurance performance specifications and was operating properly. Quality checks throughout the analytical process demonstrated that the instrument continued to operate properly.

This solution is certified as presenting **0.039** g/210 L simulated breath ethanol concentration and approved for use as a DataMaster certification solution.

Dated at Waterbury, Vermont this 6 day of OCTOBER, 2015.



David Patlak

VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION REVIEW CHECKLIST

SOLUTION TYPE AND VOLUME: 0.040 CERTIFICATION SOLUTION, 2L

LOT NUMBER#: 15-17-040 ANALYST: [Signature]

TECHNICAL REVIEWER: [Signature] DATE: 10/5/15

- QC done and complete?
Pertinent standard lot numbers listed?
Data package complete?
Transcribed data and calculations verified?
Calibration and control results all within +/- 10% (± 20% for Std A) of the known values?
Calibration line correlation factor at least 0.99xx?
Average error for components of the calibration line less than 10%?
Timing mix chromatogram demonstrates appropriate identification of components and separation from ethanol?
Surrogate compound concentrations all within 0.900 to 1.100 range, inclusive?
Statistical means of the continuing calibration check sample duplicate analysis all within +/- 10% of the known value?
Calculated average within acceptable range of the target concentration for specific solution type?
All individual readings within 3 standard deviations of the average for each run and for the total average?
RPD <10%?

Comments: Bound file # VFLO9292015.0060 surrogate not within range and not within 10% to solution target. Instrument error tank (Air) ran out. CCS's reprep'd and analyzed successfully w/ in 24hrs of cal 10/5/15 [Signature]

ADMINISTRATIVE REVIEWER: [Signature] DATE: 10/6/2015

- Are all pages numbered and initialed on the Examination Documents?
Solution lot number written on all pages?
Is the Reagent Preparation Log filled out properly?
Is the Certificate of Analysis filled out properly?
Has a label sheet been created, and is it correct?

Comments:

Check Mark or X = pass, NA= Not Applicable

VERMONT FORENSIC LABORATORY
Simulator Solution Worksheet

0.040 Certification Solution 2L
Lot # 15-17-040
Prepared 09/29/2015 by JSD
Exp 9/29/2016

DJP Cal VFL09292015.cal
JSD/DJP Vials
Analyzed on 09/29/2015

DJP Cal VFL10012015.cal
JSD/DJP Vials
Analyzed on 10/01/2015

0.0393 JSD
0.0404
0.0409
0.0400
0.0393
0.0402
0.0395
0.0395 DJP
0.0400
0.0393
0.0399
0.0391
0.0399
0.0393

0.0392 JSD
0.0400
0.0392
0.0396
0.0389
0.0403
0.0391
0.0393 DJP
0.0396
0.0390
0.0400
0.0390
0.0398
0.0395

Ave. = 0.0398
Std Dev. = 0.0005
Min. = 0.0391
Max. = 0.0409

Ave. = 0.0395
Std Dev. = 0.0004
Min. = 0.0389
Max. = 0.0403

AQ QC Manf. Cerilliant
AQ QC Lot # FN09051304
Cal Std A Lot # FN01131401
Cal Std B Lot # FN08101401
Cal Std C Lot # FN05211402
Cal Std D Lot # FN12011401
Cal Std E Lot # FN11191402
Int Std Lot # IS-06022015-A
TMX Lot # TMX-08142015
Blank Lot # BL-01162015

AQ QC Manf. Cerilliant
AQ QC Lot # FN09051304
Cal Std A Lot # FN01131401
Cal Std B Lot # FN08101401
Cal Std C Lot # FN05211402
Cal Std D Lot # FN12011401
Cal Std E Lot # FN11191402
Int Std Lot # IS-09292015
TMX Lot # TMX-08142015
Blank Lot # BL-01162015

09/29/15

Total Values from Both Runs	
Average	Mean
0.0393	0.0389
0.0404	
0.0409	0.0390
0.0400	
0.0393	0.0391
0.0402	
0.0395	0.0392
0.0395	
0.0400	
0.0393	
0.0399	
0.0391	0.0393
0.0399	
0.0393	
0.0392	0.0395
0.0400	
0.0392	0.0396
0.0396	0.0398
0.0389	
0.0403	0.0399
0.0391	
0.0393	
0.0396	
0.0390	0.0400
0.0400	0.0402
0.0390	0.0403
0.0398	0.0404
0.0395	0.0409
Ave. =	0.0396
Avg Std Dev. =	0.0005
Mean =	0.0397
Mean Std Dev. =	0.0006
Min. =	0.0389
Max =	0.0409
RPD =	5.05%