



STATE OF NEW YORK
DEPARTMENT OF HEALTH
Virology Proficiency Testing Program

General Category

January 2010

Summary of scores, responses, and
statistics for General Category Samples:
1161, 1162, 1163, 1164, 1165,

Disclaimer

**The use of brand and/or trade names in this summary does not
constitute an endorsement of the products on the part of the
Wadsworth Center or the
New York State Department of Health**

The New York State Proficiency Testing Program January 2010 General Category Evaluation Reports are available at:

<https://commerce.health.state.ny.us/doh3/applinks/eptrs/> and can be printed for your records.

This summary is based on scores and responses in the Electronic Proficiency Testing Reporting System.

Sample Description:

The January 2010 General panel contained four simulated patient specimens that were isolates from patient specimens and one no virus sample. All NYSDOH Proficiency Test samples were prepared from isolates of viruses grown from clinical specimens received in the Virus Reference and Surveillance Laboratory at the Wadsworth Center.

NYS PT Sample 1161, Parainfluenza virus, type 2 was a simulated nasopharyngeal swab from a six year old male with fever, conjunctivitis and an upper respiratory infection. This virus was originally isolated in 2005.

NYS PT Sample 1162, Influenza virus B, was a simulated nasopharyngeal swab from an eight year old male with fever, cough, and an upper respiratory infection. The virus was originally isolated in 2008.

NYS Sample 1163, was a **No virus** specimen.

NYS Sample 1164, Echovirus type 11, was a simulated nasal wash from a one year old male with a fever and a respiratory infection. The virus was originally isolated in 2007.

NYS Sample 1165, Influenza A virus 2009 H1N1, was a simulated nasopharyngeal swab from a 13 year old male with fever. The virus was originally isolated in 2009.

The isolate used in Sample 1162, influenza B, was sent to the CDC for characterization and was reported to be B/FLORIDA/04/2006-LIKE.

The isolate used in Sample 1165, influenza A, was sent to the CDC for antigenic characterization by hemadsorption inhibition and was reported to be A/CALIFORNIA/07/2009-LIKE (H1N1)v. Additionally, the viral genome in the primary clinical sample was amplified by whole influenza virus amplification (Zhou et al. 2009, J. Virol. 83: 10309-13) and forwarded to the J. Craig Venter Institute for sequencing. The entire genomic sequence can be accessed via the following link:

<http://www.ncbi.nlm.nih.gov/sites/entrez?db=nucleotide&cmd=Search&dopt=DocSum&term=txid679774%5BOrganism%3Anoexp%5D>

Sample Scoring and Validation

The scores and analysis from the January 2010 General Panel are shown below. Federally mandated validation criteria require a sample to be correctly identified by at least 80% of participating laboratories. Three of the four virus samples are valid and their identities were also confirmed by reference laboratories. Sample #1162, influenza B virus, did not meet an 80% consensus and therefore full credit for this sample will be awarded to all participants. Among the 42 responding laboratories, 25 reported the sample as influenza B, 16 reported it as influenza A and B, and 1 reported influenza A. Upon retrospective investigation, it was determined that while seed stocks of the virus were pure influenza B cultures, sporadic subsequent passages were found to be contaminated with influenza A. This sample's seed stock identity had originally also been confirmed by reference laboratories.

CLIA and CLEP establish a passing grade for participating laboratories at 80% or greater.

Please be aware that scoring is based on the number of samples your facility tested. No credit will be give for samples not tested. For example, if a facility tested four of the five PT samples, the total score would be based on four responses, each worth, 25%. Therefore, if one response was incorrect, the total score would be 75%, a failing grade.

January 2010 General Event

Scoring Analysis: 43 Participating Laboratories*

Sample #	1161	1162	1163	1164	1165
Sample Identification	Parainfluenza virus, type 2	Influenza virus B	No virus	Echovirus type11	Influenza A 2009 H1N1
Titer (TCID ₅₀) Log 10/ml	7.5	1.3	0	6.5	6.5
Laboratories Scoring 100%	42	42**	42	41	42

*One participant scored 0% due to Non-Participation.

**No consensus achieved, all labs received 100% for this sample.

General Grade Distribution

Total Score For Panel	100%	80%	60%	40%	20%	0%
Participating Laboratories	40	2	0	0	0	1*

*One participant scored 0% due to Non-Participation.

Culture Methods Reported by Laboratories

of Responses Using Each Method/Sample

	Sample 1161	Sample 1162	Sample 1163	Sample 1164	Sample 1165
Conventional	14	14	14	14	14
Centrifugation Enhanced	11	10	8	9	11
Conventional & Centrifugation Enhanced	17	18	20	19	17

Cell lines utilized by participating laboratories for culture of each sample*

Cell Lines	1161 Inoculated	1161 Detected In	1162 Inoculated	1162 Detected In	1164 Inoculated	1164 Detected In	1165 Inoculated	1165 Detected In
			11		11	6	12	1
A549	10		1		1	1	1	
AGMK	1							
BGMK								
CV-1								
E-Mix	2		2	1	5	4	4	1
ELVIS								
H & V Mix	1		1		1			
HEL	1		1		1	1	1	
Hep-2	2	1	2	1	2	1	1	
HFF	1		1		2	1	1	
ML			1	1			1	1
MKCy	1	1	1		1	1	1	1
MRC-5	19	2	19	1	18	15	20	5
MRHF	2	1	2	1	1		1	
pRK								
R-Mix	13	13	15	14	10	3	13	13
R-Mix Too	9	9	8	8	6	2	8	8
RhMK	21	20	29	26	26	25	27	26
Super E-Mix	1		1		3	3	1	
Vero								
WI-38	2		2		1	1	2	1

*To generate this data, the first two selections listed in the submitted information have been captured from each laboratory. The additional selections by laboratories that inoculated more than two cell lines have not been included.

“Cell Line Inoculated” or “Detected In” data is not included in the above chart for Sample 1163, No virus.

Sample 1161

Parainfluenza virus, type 2

Confirmation Reagents

Reagent Name	# of Responses
Bartels VRK	2
D3 DFA Ultra Respiratory Virus Screen kit	20
DHI Parainfluenza 2 DFA	5
DHI	1
Light Diagnostics Para MABs	6
Millipore Respiratory Virus DFA Acreen	3
PathoDx	1
Simulfluor/Para 1,2,3,	1

Confirmation Methods

Method	#of Responses
Immunofluorescence	42
HAd	5

Sample 1162

Influenza virus, type B

Confirmation Reagents

Reagent Name	# of Responses
Bartels Trinity Biotech VRK	3
Binax NOW Influenza A/B	1
D3 Ultra Respiratory Virus Screen/ID	20
DHI Influenza A/B MAB	8
Directigen EZ Flu A/B	1
Light Diagnostics Millipore	1
Light Diagnostics Respiratory Panel	1
Millipore Respiratory Virus DFA Screen	3
Oxoid Influenza A/B DFA kit	1
PathoDx	1
Prodesse	1
Quidel	1
RVP kit	1
Simulfluor Flu A/B	2

Confirmation Methods

Method	# of Responses
EIA	3
Hemadsorption	5
Hemagglutination Inhibition	1
Immunofluorescence	39
PCR	4

Sample 1164
Echovirus, type 11

Confirmation Reagents

Reagent Name	# of Responses
Acidlability	1
Chemicon Panentero blend	2
Culture passage to RhMK	1
D3 IFA Enterovirus	4
DHI IFA Enterovirus ID	4
Light Diagnostics	4
Light Diagnostics Echo MAB	2
Light Diagnostics Panentero B	2
Light Diagnostics Panentero/CDC	1
Millipore Echovirus Ab set	5
Millipore Panentero blend	3
Millipore Respiratory Virus DFA Screen	1
None	2
PathoDx	1

Confirmation Methods

Method	# of Responses
Immunofluorescence	38
PCR	2

Sample 1165
Influenza virus, type A 2009 H1N1

Confirmation Reagents

Reagent Name	# of Responses
Bartels	3
Binax NOW Influenza A & B kit	1
D3 Ultra DFA Respiratory kit	21
DHI influenza A MAB	7
Directigen EZ Flu A/B	1
Light Diagnostic Respiratory Panel	2
Millipore Respiratory Virus DFA Screen	4
Oxoid Influenza A & B kit	1
Patho Dx	1
Simulfluor A/B	1

Confirmation Methods

Method	# of Responses
Immunofluorescence	39
HAd	3
HI	2
EIA	2

Confirmation Reagent data is not included in the above charts for Sample 1163, No virus.

Notes:

- The NYS Virology Proficiency Testing laboratory recently re-located to the David Axelrod Institute. Our new US Postal Service address is:
 - Virology Proficiency Testing Program, David Axelrod Institute, Wadsworth Center, NYS Department of Health, PO Box 22002, Albany, NY 12201-2002.
 - Telephone 518-474-0140 and fax 518-473-4336.
- The Virology PT shipping schedule for 2010 is posted on the Clinical Laboratory Evaluation Program website (<http://www.wadsworth.org/labcert/clep/PT/ptindex.html>).
- If your laboratory uses a confirmation method that detects and types a virus, it is expected that your laboratory's report include the virus type.
- Lot numbers and expiration dates for Confirmation Reagents/Kits are no longer a required field.
- Generic worksheets are provided for your optional use. Please do not return these worksheets to us. Generic worksheets can also be printed via the HPN (<https://commerce.health.state.ny.us/doh3/applinks/epters/>).
- Participants MUST enter responses in ALL fields when reporting electronically; scores may be adversely affected if there are blank fields.
- In the "Virus Isolated" drop down menu, please select "No virus" if your intended answer is "No virus isolated." The scoring algorithm does not recognize "No virus isolated" and your score may be affected. In the case where "No virus" is selected, please select "Not Applicable: no virus isolated" in the Cell Line Detected In field. For the field, Confirmation Method, select No Confirmation Testing Performed; and in the field, Confirmation Reagents, type NA.

EPTRS Notes:

- Participation in EPTRS is mandatory. Laboratories must submit test results electronically by logging in to: <https://commerce.health.state.ny.us/doh3/applinks/epters/> entering their results and clicking the "Submit/Attest" button on the EPTRS Summary Page.
- Please be sure to "Submit" test results. Keeping results as "Saved" is considered non-participation for the event and will automatically result in a failing grade in the electronic system.