

Virology Proficiency Testing Program

Comprehensive Category

September 2011

Summary of scores, responses, and
statistics for Comprehensive Category
Samples: 1286, 1287, 1288, 1289, 1290

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 September 2011 General Category Evaluation Reports are available on the Health Commerce System via EPTRS and can be printed for your records.

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

Sample Description:

The September 2011 Comprehensive 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 Virology Laboratory at the Wadsworth Center.

NYS PT Sample 1286, Varicella zoster virus, was a thigh vesicle swab from a seventeen year old male. The sample was originally isolated in 2009.

NYS PT Sample 1287, was a **No virus** specimen.

NYS PT Sample 1288, Herpes simplex virus, type 1 was a genital swab from a 35 year old male.

NYS PT Sample 1289, Respiratory syncytial virus, was a nasopharyngeal swab from a sixty-five year old male. The sample was originally isolated in 2010.

NYS PT Sample 1290, Adenovirus, type 1, was a nasopharyngeal swab from a two year old male. The virus was originally isolated in 2009.

Sample Scoring and Validation

The scores and analysis from the September 2011 Comprehensive Panel are shown below. Federally mandated validation criteria require a sample to be correctly identified by at least 80% of participating laboratories. CLIA and CLEP established a passing grade for participating laboratories at 80% or greater. All five samples are valid and their identities were also confirmed by reference laboratories (all are public health laboratories). Sample #1286, varicella- zoster virus, was invalid due to a below 80% consensus. All participants will receive full credit for sample #1286. Of the 37 participating laboratories, 1 laboratory reported "Specimen source not tested," 11 laboratories reported "No virus," and 25 laboratories correctly identified the sample as varicella-zoster virus. Congratulations to the labs that successfully identified the varicella-zoster sample.

Please be aware that scoring is based on the number of samples your facility tested. No credit will be given 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.

September 2011 Comprehensive Event

Scoring Analysis: 37 Participating Laboratories

Sample #	1286*	1287	1288	1289	1290
Sample Identification	Varicella- zoster virus	No virus	Herpes simplex virus, type 1	RSV	Adenovirus, type1
Titer (TCID ₅₀) Log 10/ml	1.3	0	6.5	5.0	6.5
Laboratories Scoring 100%	36**	37	36**	37	35

*Sample invalid due to a consensus below 80%

** One facility reported "Specimen source not tested"

General Grade Distribution

Total Score For Panel	100%	90%	80%	60%	40%	20%
Participating Laboratories	35	0	2	0	0	0

Culture Methods Reported by Laboratories

	# of Responses Using Each Method/Sample				
	Sample 1286	Sample 1287	Sample 1288	Sample 1289	Sample 1290
Conventional	10	10	16	10	12
Centrifugation Enhanced	9	9	10	10	10
Conventional & Centrifugation Enhanced	16	17	10	17	15

Cell Lines	1286 Inoculated	1286 Detected In	1288 Inoculated	1288 Detected In	1289 Inoculated	1289 Detected In	1290 Inoculated	1290 Detected In
A549	12	4	13	9	9	5	9	9
AGMK	1		1	1	1		1	1
BGMK								
CV-1		1				1		
E-Mix	2		1		1		1	
ELVIS	2		4	2				
H & V Mix	7	4	5	5	2		2	
HEL			1	1	1		1	
HEp-2				1	1	3	1	1
HFF								
ML			1	1				
MKCy								
MRC-5	22	15	23	18	17	9	17	8
MRC-5 Shell vial								
MRHF		1						
pRK	3		4	4	2		2	
R-Mix	1		2		7	6	8	5
R-Mix Too					8	8	8	8
RhMK	12		8	4	15	18	18	18
Super E- Mix	1				1		1	
Vero	1	1	1	1	1			
WI-38					1	1	1	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 1287, No virus.

Sample 1286

Varicella-zoster virus

Confirmation Reagents

Reagent Name	# of Responses
Chemicon/Light Diagnostics/ Millipore	12
DHI D3 DFA VZV ID kit	1
DHI D3 Respiratory IFA	1
Meridian MeriFluor VZV FA stain	11
SimulFluor HSV/VZV	1

Confirmation Methods

Method	#of Responses
Immunofluorescence	26

Sample 1288

Herpes-simplex virus, type 1

Confirmation Reagents

Reagent Name	# of Responses
Bartels HSV 1&2 Typing DFA kit	5
Chemicon SimulFluor HSV/VZV DFA	1
DHI HSV IFA	1
DHI D3 DFA HSV ID & Typing kit	7
ELVIS HSV ID & Typing kit	4
Light Diagnostics/Millipore	1
MicroTrak HSV 1/2 ID kit	4
PathoDx Herpes typing kit	4
Remel	1

Confirmation Methods

Method	# of Responses
Immunofluorescence	30
ELVIS	4

Sample 1289
Respiratory syncytial virus

Confirmation Reagents

Reagent Name	# of Responses
Bartels RSV DFA kit	1
Bartels VRK	1
Binax NOW RSV	2
DHI	7
D3 Duet DFA Influenza A/B Respiratory Screen ID kit	1
D3 Duet DFA Respiratory Screen kit	8
D3 Ultra Respiratory Virus ID kit	9
Light Diagnostics	2
Millipore DFA Respiratory Screen	3
Millipore RSV DFA kit	2
PathoDx	1

Confirmation Methods

Method	# of Responses
Immunofluorescence	35
Rapid Antigen Detection	2
RT-PCR	1

Sample 1290
Adenovirus, type 1

Confirmation Reagents

Reagent Name	# of Responses
DHI	7
DHI D3 Duet DFA Influenza/Respiratory Screen kit	1
DHI D3 Respiratory IFA	3
DHI D3Ultra DFA Respiratory Virus Screen kit	12
DHI D3 Ultra Adenovirus kit	3
Light Diagnostics	5
Millipore Adenovirus DFA kit	1
Millipore Respiratory DFA	2
PathoDx	1
Shell vial	1

Confirmation Methods

Method	# of Responses
Immunofluorescence	35
RT-PCR	1

Confirmation Reagent data is not included in the above charts for Sample 1287, No virus.

Notes:

- **If your laboratory uses a confirmation method that detects and types a virus, it is expected that your laboratory's result include the virus type.**
- Each facility will receive an e-mail notice when the Virology PT shipping schedule for 2012 is to be posted on the Clinical Laboratory Evaluation Program website: (<http://www.wadsworth.org/labcert/clep/PT/ptindex.html>).
- January 2012 Proficiency Test Dates:
 - Influenza Direct Antigen Detection: January 18, 2012
 - Comprehensive: January 25, 2012
 - Herpes Simplex Virus Testing: January 25, 2012
 - Rotavirus and Respiratory syncytial virus Direct Antigen Detection: January 24, 2012
- **Generic worksheets** can be found at:
<http://www.wadsworth.org/divisions/infdis/virologyPT/worksheets.shtml>
Generic worksheets can also be printed by logging onto the HPN and navigating to EPTRS, Results page, Print Optional Worksheet.
- **Instruction sheets** can be found at:
<http://www.wadsworth.org/divisions/infdis/virologyPT/instruction.shtml>
- 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 into the Health Commerce System, navigating to EPTRS, entering 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