

AusDiagnostics TODAY

Latest Research and
Company News

New Panels
Are Coming
with ASEP 2016
Program



SAMPLE EXCHANGE PROGRAM 2016

With the New Year, new types of specimens and pathogens will be available through ASEP

ASEP PLANS FOR 2016

AusDiagnostics Sample Exchange Program (ASEP) is a complimentary sample exchange program hosted by AusDiagnostics, which was first developed due to the lack of an alternative Australian faecal pathogens QAP. Following the success of the faecal pathogens exchange this year, we are excited to announce that ASEP will offer two pathogen themes in 2016. There will be two sessions of each theme. For each session, AusDiagnostics receive, process, and distribute all samples, and then compare all results in an anonymised report.

Faecal Pathogens Exchange

In 2016 we will include AusDiagnostics customers using molecular diagnostic systems from other manufactures to participate. Registrations will open December 14, and can be done through our online form at <http://goo.gl/forms/i7V0aRJHIZ>

Respiratory Pathogens Exchange

The respiratory pathogens exchange will focus on pathogens found in the lower respiratory tract. Online registration and specimen criteria will be released in March.

Enquiries?

For more information please contact jeanne.zhang@ausdx.com

NEW REAGENT PANELS DEVELOPMENTS

New confirmation assay for *Neisseria gonorrhoea*

Pathogenic *Neisseria* spp. encode a family of phase-variable and antigenically distinct opacity (*Opa*) proteins that allow bacterial attachment to virtually every cell type encountered during infection. There are approximately 12-15 of them on *N. gonorrhoeae*. When utilising a single assay for *N. gonorrhoeae* we target one of these - called J opacity gene (*opaJ*). The alternative confirmatory targets *pgi1* and *rpmIII* are not sufficiently inclusive to be used as confirmation (*continued on page 2*).

Exchange type	Session	Registration Open	Specimen Collection Open	Specimen testing period
Faecal Pathogens (FP1,FP2)	1	January	February	March
	2		July	August
Respiratory Pathogens (RP1, RP2)	1	March	April	May
	2		October	November

NEW DEVELOPMENTS

New confirmation assay for *Neisseria gonorrhoea* (continued from p.1)

We are currently validating new confirmatory assays designed to detect alternative members of the *opa* gene family. These amplify two other targets *opaC* and *opaH*. It is important to note that these are completely different genes, separated from *opaJ* by about 500Kb on the genome.

Updated primer set for *Trichomonas*

Whilst retaining the same target gene, we have also redesigned our assay for *T. vaginalis* to amplify 100% of all sequenced *Trichomonas* strains, with reduced non-specific amplification of related organisms.

RECENTLY LAUNCHED

CSF and Herpes panels with updated cycling conditions optimised for better EV performance.

Easy-Plex 384 HIGH-plex

27050 CSF (16Plex)

27091 Herpes, Entero and Adenovirus (8Plex)

27092 Viral CSF (8Plex)

27093 Viral (8Plex)

Easy-Plex 72

67060 CSF (14Plex) 37050 CSF-D (14Plex)

37021 CSF (10Plex) 37024 CSF-E (9Plex)

37051 CSF (6Plex) 37022 CSF B (10Plex)

37023 CSF C(14Plex) 37025 CSF Hobart

COMING SOON

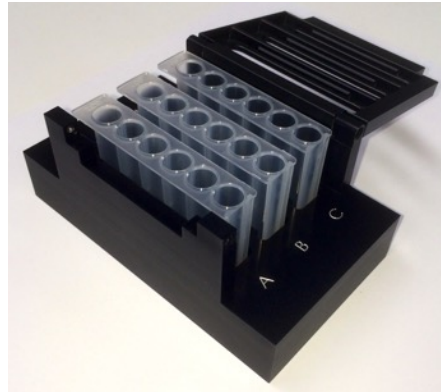
- New generation of Respiratory pathogens and Pneumonia panels with updated *Legionella* assay
- New *N.gonorrhoeae* confirmation assay in STI panels

MMM 2016

Wednesday March 2 - Thursday March 3, 2016
WatervieW, Bicentennial Park NSW Australia

AusDiagnostics invites everybody to participate in one of the most important molecular diagnostics events in Australia - Molecular Microbiology Meeting 2016. At the event you may discover a few interesting surprises from us!

ROBOTIC SYSTEMS



Development of the new ULTRA-plex processor is in focus. Along with planned changes in the number of analysed samples (this amount will double from 24 up to 48, see Nov 2015 Newsletter) the brand new cassette system for mastermixes will be implemented. The robot will carry

a special cassette of mastermix instead of tubes. Production will start manufacturing a special series of mastermixes dispensed and sealed into disposable plastic cassettes, while all existing equipment will be upgraded to the cassette version over two years. With this improvement, the system is going to be even easier and quicker, reducing the possibility of any errors connected to wrong reagent placements to zero. Moreover, the cassette system will allow us to split the reagents into separate vials (e.g. enzymes will be separated from buffers) improving overall shelf-life and stability of the product.

NEW TERMINOLOGY

In 2015, we have developed a new series of diagnostics panels allowing detection of several targets in one step 2 well. For instance, the recently issued 'Faecal Pathogen X' panel whilst called 16Plex makes possible the detection of 22 targets, meaning that the term 'Plex' is no longer relevant. Hence we will change the names of our panels, replacing "Plex" with "well". Now panels will be classified as 8-well, 16-well etc. reflecting the number of step 2 wells used per one sample.

VALIDATION TRIAL REQUESTS

Receive a FREE validation kit in exchange for data. If you have positive samples of the following targets, confirmed with alternative methods, we would love to collaborate with you.

- ▶ **Faecal Pathogens:** *Aeromonas hydrophila*, *Cyclospora*, *Dientamoeba fragilis*
- ▶ **CSF/Herpes:** *Leptospira spp.*, Parechovirus, Epstein Barr Virus (confirmed negatives as well)
- ▶ **Respiratory:** *Aspergillus fumigatus*

For more information please contact paula.woodbridge@ausdx.com

COMPANY NEWS

Christmas Closure

We will be closing for our end of year holidays on Thursday afternoon the 24th of December 2015 and re-opening on Monday the 4th of January 2016. The mail box support@ausdiagnostics.com will still be checked for urgent support needs.

Orders and shipments in December

Orders placed before Friday 11th of December 2015 will be shipped before Christmas if it all possible. Orders after that date may not be dispatched until we re-open on Monday the 4th of January 2016.



AusDiagnostics team would like to wish everyone a great Festive Season and a Happy New Year!