NeoNet is a cloud-based system that collects the ATP test results from each of your facilities and presents the data in a clear, intuitive manner for review and reporting.

NeoNet provides multi-site ATP data access for a new level of:

Visibility – What are the best and worst performing facilities, groups or test sites across the entire company?

Insight – What are the ATP test results like from a particular facility?

Management – Which test sites failed last night at all of the facilities? Did someone re-clean and re-test that site? Has this been happening a lot at this site?

AccuClean Advanced delivers industry-leading speed and sensitivity for determining the cleanliness of food contact surfaces and equipment. AccuClean Advanced is a simple, 10-second visual test that reveals detected protein residue through an easy-to-interpret color change. With a protein detection limit of 10 µg, the test provides sensitive, reliable results.
Allergen Screening

Reveal® 3-D Food Allergen Kits
Reveal 3-D tests are uniquely designed with three lines of detection and can be used to screen for the presence of low levels of allergens in rinses and on environmental swabs virtually anywhere.

Easy-to-use, five-minute, qualitative tests for:

- Almond
- Hazelnut
- Sesame
- Crustacea
- Mustard
- Soy
- Egg
- Peanut
- Total Milk
- Gluten/Gliadin

Reveal for Multi-treenut
Reveal for Multi-Treenut is designed to screen environmental swabs and rinse waters for the presence of any one or a combination of almond, hazelnut, pecan, walnut, cashew and pistachio.

General Microbiology and Indicator Organism Testing

Soleris® for environmental testing
The Soleris system helps you get there faster, with less sample handling, less labor and less chance for error. The heart of the Soleris system is its ready-to-use vial. The unique vial technology measures microbial growth by monitoring pH changes and other biochemical reactions.

Here’s how:
- Samples of up to 5 mL are added to the vials prefilled with microbial growth medium.
- Soleris monitors changes in the chemical characteristics of the medium, and reagents change color as metabolic processes occur.
- Optical changes are monitored every six minutes in the vial’s agar plug, which is separated from the sample to eliminate interference.
- Changes in color, expressed as optical units, are sensed by the photo detector and recorded in the computer.
- The higher the number of organisms, the faster the detection time.

<table>
<thead>
<tr>
<th>Test type</th>
<th>Typical specification levels</th>
<th>Traditional methods time to results</th>
<th>Soleris total test time to negative or below specification results</th>
<th>Soleris early alert time for positive results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Viable Count (TVC)</td>
<td>&lt;10,000</td>
<td>48 hours</td>
<td>18 hours</td>
<td>6 to 8 hours</td>
</tr>
<tr>
<td>Coliforms</td>
<td>&lt;10</td>
<td>24 hours</td>
<td>14 hours</td>
<td>6 to 10 hours</td>
</tr>
<tr>
<td><em>E. coli</em></td>
<td>negative</td>
<td>24 hours</td>
<td>20 hours</td>
<td>6 to 10 hours</td>
</tr>
<tr>
<td>Yeast and Mold</td>
<td>&lt;100</td>
<td>5 days</td>
<td>48 hours</td>
<td>14 to 24 hours</td>
</tr>
<tr>
<td>Lactic Acid Bacteria</td>
<td>&lt;100</td>
<td>3 to 5 days</td>
<td>48 hours</td>
<td>30 to 35 hours</td>
</tr>
</tbody>
</table>
Allergen Quantification

**Veratox® for Food Allergens**

Veratox microwell food allergen test kits are S-ELISAs that require minimal training and a minimum of standard laboratory equipment to produce quantitative results in 30 minutes following extraction.

Quantitative results in 30 minutes for:

- **Almond** – 2.5 to 25 ppm
- **Casein** – 2.5 to 15 ppm
- **Crustacea** – 2.5 to 25 ppm
- **Egg** – 2.5 to 25 ppm
- **Gliadin** – 2.5 to 40 ppm
- **Hazelnut** – 2.5 to 25 ppm
- **Mustard** – 2.5 to 25 ppm
- **Peanut** – 2.5 to 25 ppm
- **Sesame** – 2.5 to 25 ppm
- **Soy** – 2.5 to 25 ppm
- **Total Milk** – 2.5 to 25 ppm

**Bacterial Microbiome Identification**

**16S Metagenomics**

Discover the microbiome of products and a production facility using next generation sequencing. This application uses the 16S bacterial gene to provide identification for every bacteria within a sample. This technology is used to pinpoint spoilage bacteria in a facility, improve clean label formulations and validation/verification of sanitation standard operating procedures.

- Non-biased ID of every organism within a sample
- Find new sources of contamination
- Troubleshoot spoilage and shelf-life issues previously unaddressable
- No enrichment, no isolation

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**Environmental sample**

![Environmental sample](image)

**Full microbiological profile report**

**10–14 day turnaround time**
Environmental Pathogen Screening

Listeria Right Now is a complete system for taking environmental Listeria tests with molecular-level accuracy that requires no enrichment and features a total time to result of less than one hour.

Listeria Right Now Kit for 96 samples includes:
- Environmental swabs for sample collection
- Lysis buffer components
- ANSR reagents (reaction tubes with internal positive control)

Listeria environmental test results in less than one hour means that now you can:
- Use Listeria monitoring as a process control
- Perform corrective actions more quickly and fix an issue before it becomes a serious problem – clean and retest
- Conduct investigations in near real-time
- Perform vectoring more easily
- Be more flexible and proactive with your environmental monitoring program
- Bring testing into the plant with no concern for growing pathogens

The system comes complete with:
- ANSR isothermal amplification system and reader with 16 wells
- Computer with data reporting software
- Two heater blocks

Less than an hour? How is this possible?

The ANSR\textsuperscript{®} Listeria Right Now system is able to detect very low numbers of Listeria spp., including \textit{L. monocytogenes}, from environmental samples without enrichment. The system employs an isothermal, amplified nucleic acid-based reaction to target rRNA. Amplification occurs through a polymerization mechanism by a specific endonuclease. Detection occurs in real-time using a fluorescent, molecular beacon.

rRNA is present in much greater numbers in Listeria cells than the traditional DNA target (~1000 – 10,000 copies per cell vs. 1 copy per cell for DNA). This can result in a 1,000 – 10,000 fold increase in target analyte concentration. The isothermal reaction within the instrument produces a constant cycle of molecular replication producing analyte copies much more quickly than traditional PCR reactions, which run through a series of heating and cooling cycles.

Summary: significantly more targets with a significantly faster cycle time = significantly faster results.
Neogen’s Food Safety Division

From easy-to-use lateral flow tests for numerous contaminants, to DNA-definitive assays for pathogens, Neogen offers testing products, expertise, service and support for the food industry.

Food safety testing solutions

- Natural toxins
- Food allergens
- Sanitation verification
- Spoilage organisms
- Pathogens/foodborne bacteria
- Residues
- Culture media

Online ordering

Experience the convenience and efficiency of our online ordering system at: http://order.neogen.com/LAN. (Available in the USA and Canada)

Training and support

Neogen provides continual support and follow-up training, utilizing a combination of virtual and on-site training. Our dedicated technical service and field application specialists provide around-the-clock professional technical support should questions arise about any of our products.

NeoCare™/LabLive

We offer a variety of service programs designed to optimize your results when using Neogen products. LabLive is a unique lab-to-lab experience connecting our technical support experts and your lab.