

**MATERIALS PROVIDED**

- Two vials of lyophilized ATP standards (reconstituted volume sufficient for 100 tests of each standard).

**MATERIALS REQUIRED BUT NOT PROVIDED**

- Latex or polyurethane gloves
- Type I deionized water
- Pipettor capable of dispensing volume of 1 mL or 2 mL
- Pipettor capable of dispensing volume of 20 µL

**PROCEDURE**

- The user must wear latex or polyurethane gloves to prevent contamination. Remove ATP standard vials from the bag and carefully remove stoppers.
- Reconstitute the contents of each vial with 2 mL of Type I deionized water.
- Recap the vials and mix gently for **10 seconds**.
- Pipette 20 µL of ATP Standard 1 directly onto the sampling pad of an AccuPoint sampler, and follow the manufacturer’s instructions for activation. Record RLU results in the chart provided. For a valid statistical comparison, collect a total of 10 readings.
- Pipette 20 µL of ATP Standard 1 directly onto the competitor swab, and follow the manufacturer’s instructions for activation. Record RLU results in the chart provided. For a valid statistical comparison, collect a total of 10 readings.
- Repeat steps 4 and 5 using ATP Standard 2.
- Use 20 µL of Type I deionized water to establish background RLU level corresponding to 0 ATP.
- Reconstituted ATP standards should be used or discarded within **8 hours**.

**ATP CONCENTRATIONS AND ABSOLUTE AMOUNT**

When reconstituted in 2 mL water, the standards provided have the following concentrations (expressed in nM, or 10<sup>-9</sup> moles/L) and absolute quantities (expressed in femtomole, or 10<sup>-15</sup> mole) of ATP:

Standard	ATP concentration	Quantity of ATP in 20 µL standard
1	1.2 nM	24 femtomole
2	4.8 nM	96 femtomole

**ATP Sanitation  
Monitoring System  
Evaluation Results**

ATP Standard 1 – Low		
Replicate	AccuPoint	Other
1–1		
1–2		
1–3		
1–4		
1–5		
1–6		
1–7		
1–8		
1–9		
1–10		
<b>Average</b>		

ATP Standard 2 – High		
Replicate	AccuPoint	Other
2–1		
2–2		
2–3		
2–4		
2–5		
2–6		
2–7		
2–8		
2–9		
2–10		
<b>Average</b>		

**CUSTOMER SERVICE**

Neogen Customer Assistance and Technical Services can be reached by using the contact information on the back of this booklet. Training on this product, and all Neogen test kits, is available.

**MSDS INFORMATION AVAILABLE**

Material safety data sheets (MSDS) are available for this test kit, and all of Neogen’s test kits, on Neogen’s website at [www.neogen.com](http://www.neogen.com), or by calling Neogen at 800/234-5333 or 517/372-9200.

## WARRANTY

Neogen Corporation makes no warranty of any kind, either expressed or implied, except that the materials from which its products are made are of standard quality. If any materials are defective, Neogen will provide a replacement of the product. Buyer assumes all risk and liability resulting from the use of this product. There is no warranty of merchantability of this product or of the fitness of the product for any purpose. Neogen shall not be liable for any damages, including special or consequential damage, or expense arising directly or indirectly from the use of this product.

### TESTING KITS AVAILABLE FROM NEOGEN

#### Natural toxins

- Aflatoxin, DON, ochratoxin, zearalenone, T-2/HT-2 toxins, fumonisin, histamine

#### Foodborne bacteria

- *E. coli* O157:H7, *Salmonella*, *Listeria*, *Listeria monocytogenes*, *Campylobacter*, *Staphylococcus aureus*, *Salmonella enteritidis*

#### Sanitation

- ATP, yeast and mold, total plate count, generic *E. coli* and total coliforms, protein residues

#### Food allergens

- Almonds, crustacea, eggs, gliadin, hazelnut, lupine, milk, mustard, peanut, sesame, soy, walnut

#### Genetic modification

- CP4 (Roundup Ready®)

#### Ruminant by-products

- Meat and bone meal, feed



#### North America

##### Neogen Headquarters

620 Leshar Place, Lansing, MI 48912 USA  
800/234-5333 (USA/Canada) or 517/372-9200  
Fax: 517/372-2006 • [foodsafety@neogen.com](mailto:foodsafety@neogen.com)  
[www.neogen.com](http://www.neogen.com)

#### Europe, Middle East and Africa

##### Neogen Europe

The Dairy School, Auchincruive, Ayr  
KA6 5HW Scotland, UK  
+ 44 (0) 1292 525 600  
Fax: + 44 (0) 1292 525 601  
[info\\_uk@neogeneurope.com](mailto:info_uk@neogeneurope.com)  
[www.neogeneurope.com](http://www.neogeneurope.com)

#### Mexico

##### Neogen Latinoamérica

Darwin No. 83, Col. Anzures, México, 11590 D.F.  
+52 (55) 5254-8235, +52 (55) 5203-0111,  
+52 (55) 5531-2837  
Fax: +52 (55) 5531-1647  
[informacion@neogenlac.com](mailto:informacion@neogenlac.com) • [www.neogen.com](http://www.neogen.com)

#### Brazil

##### Neogen do Brasil

Rua: Alberto Guizo 760, Distrito Industrial João Narezzi, Indaiatuba – SP Brasil, Cep: 13.347-402  
Tel: +55 19 3935.3727  
[info@neogendobrasil.com.br](mailto:info@neogendobrasil.com.br) • [www.neogen.com](http://www.neogen.com)



## ATP Testing Standards

*A scientific approach to evaluating  
ATP sanitation monitoring systems*

### DISCUSSION

Adenosine triphosphate (ATP) sanitation monitoring systems express levels of ATP detected on a surface or in a liquid sample in terms of relative light units (RLU). Variation in results between systems can be caused by the reagent formulation used to produce the bioluminescent reaction in the sampling devices and/or in the electronic manipulation of the light signal within the luminometer.

It is important to understand the relationship between ATP and RLU for various sanitation monitoring systems. Simple surface sampling comparisons can be highly variable due to sampling technique, sample type, and possible extreme variations in food residue present in different areas of the same surface.

The ATP testing standards provide a more consistent and scientifically-based method for comparing systems through the pipetting of stable ATP standards directly onto the surface of the sampling device. These instructions describe the procedure for comparing the performance of ATP sanitation monitoring systems. To evaluate the performance of the AccuPoint system against competitor systems with water-based samples, please contact Neogen Technical Services at 800/234-5333.

### STORAGE REQUIREMENTS

Store refrigerated at 2–8°C (35–46°F) to ensure full shelf life (6 months).