



415 S Airpark Road  
Cottonwood, AZ 86326, USA  
Phone: (800) 733-0266  
Fax: (928) 649-2306  
Email: info@preclaboratories.com

## Product Technical Fact Sheet

Precision Part Number: QAC-100

Precision Description: Low Level QAC Test Strips, 100 strips per vial

### Application:

The 0-100 ppm low range QAC test strip is used for testing disinfection/sanitizing solutions of quaternary ammonium mixtures in water. It is often used to test rinse water to verify that the rinse contains no residual QAC. The test strip and color chart have been calibrated for use with Oasis 146 (Ecolab). Oasis 146 concentrate consists of the following active ingredients. The test strip can be used with other similar Quat formulas; however, the specific application should be verified before use.

|   |       |
|---|-------|
| Alkyl dimethyl benzyl ammonium chloride | 3.00% |
| Octyl decyl dimethyl ammonium chloride  | 2.25% |
| Diocetyl dimethyl ammonium chloride     | 0.90% |
| Didecyl dimethyl ammonium chloride      | 1.35% |

Test Range: 0-100 ppm

Test Increments: Color chart calibrated at <10, 20, 30, 50, and 100 ppm using Oasis 146

Accuracy: +/- ½ color chart unit

Detection Limit: 10 ppm (it is not possible to accurately quantitate results below 10 ppm)

Storage Recommendations: Store in original packaging in a cool (20-30C), dry, place out of direct sunlight.

Shelf-Life: Two years from date of manufacture when stored properly in original packaging.

### Interferences:

Formula additives can adversely influence the results. Use with formulations other than Oasis 146 should be verified first.

Temperature can adversely affect the results. Temperatures of 90-110F can cause strips to read up to ½ unit high. Temperatures above 110F can shift the results 1 unit high. Testing at room temperature is recommended.

Hard water (above 500 ppm) can cause the strips to read high, up to 1 unit.

### Instructions for Use:

1. Dip test strip into the solution to be tested and move it back and forth slowly 5 times.
2. Remove test strip and after 10 seconds compare the test pad to color chart.

### Chemistry Behind the Test:

The QAC test papers use various surfactants, buffers, and indicators to employ the protein-error of indicators effect.