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## Product Technical Fact Sheet

Precision Part Number: 106-QR5

Precision Description: QAC QR5 Test Papers, 100 strips per vial

### Application:

The 0-500 ppm QR5 test paper is used for testing disinfection/sanitizing solutions of quaternary ammonium mixtures in water. The test strip and color chart have been calibrated for use with Oasis 146 (Ecolab). Oasis 146 concentrate consists of the following active ingredients:

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

The test strip can be used with other similar Quat formulas, however, the specific application should be verified before use.

Test Range: 0-500 ppm

Test Increments: Color chart calibrated at 0, 150, 200, 400 and 500 ppm using Oasis 146

Accuracy: +/- ½ color chart unit

Detection Limit: 25 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 paper into the solution to be tested for 1 second.
2. Remove test paper, and allow 5-10 seconds for color to develop before comparing to color chart.

### Chemistry Behind the Test:

The QAC QR5 test papers use various surfactants, buffers, and indicators to employ the protein-error of indicators effect.