

CHLORINE COMPLIANCE MONITORING

SenSafe® Free Chlorine Water Check *The only test strip approved by the USEPA*

- Ideal for field/on-site drinking water compliance monitoring*
- Published in the 2007 Federal Register
(vol 72, no 47, Monday, March 12, 2007 p. 11204, ITS method D99-003)
- No instrument required
- Safe and non-hazardous
- 0.05 ppm (mg/L) detection
- Uses patented technology
U.S. patents # 5491094 # 6541269
- Allowed by the USDA for use in food processing facilities
- No indicator bleach out even at 500 ppm (mg/L) Chlorine
- No monochloramine interferences
- Approved for use by most states
- Ideal for measuring cloudy and turbid water samples with negligible effect on test results



Part No. 481026



Industrial Test Systems, Inc.
Innovators of Water Quality Testing



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SenSafe® Free Chlorine Water Check

The only test strip approved by the USEPA

Benefits:

Accuracy - Because there are no chemicals to mix and no instrumentation to calibrate, SenSafe® Free Chlorine Water Check minimizes user error.

Cost - SenSafe® Free Chlorine Water Check saves materials, time and doesn't require photometer to use.

Ease - Professional accuracy for non-technical user with no special training needed.

Time - No set up is required so results are available in a fraction of the time required by other methods.

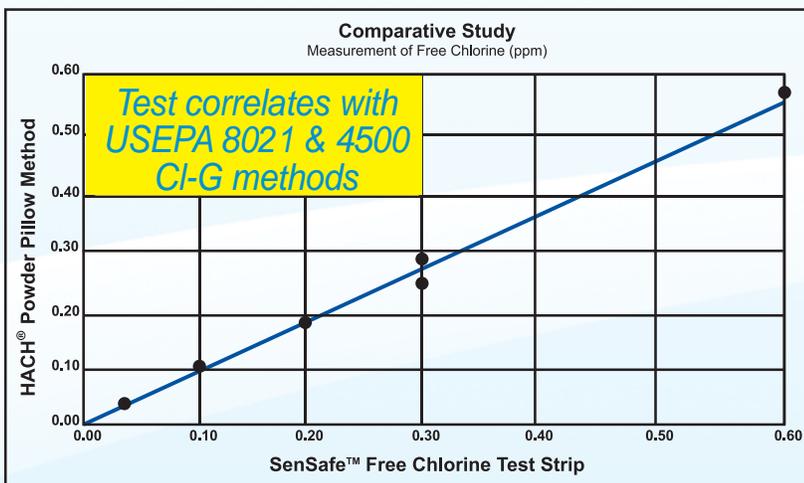
Safety - SenSafe® Free Chlorine Water Check is classified by OSHA to be non-hazardous because of the small amount of chemicals involved.

Transport - Small and portable - makes it ideal for field testing.

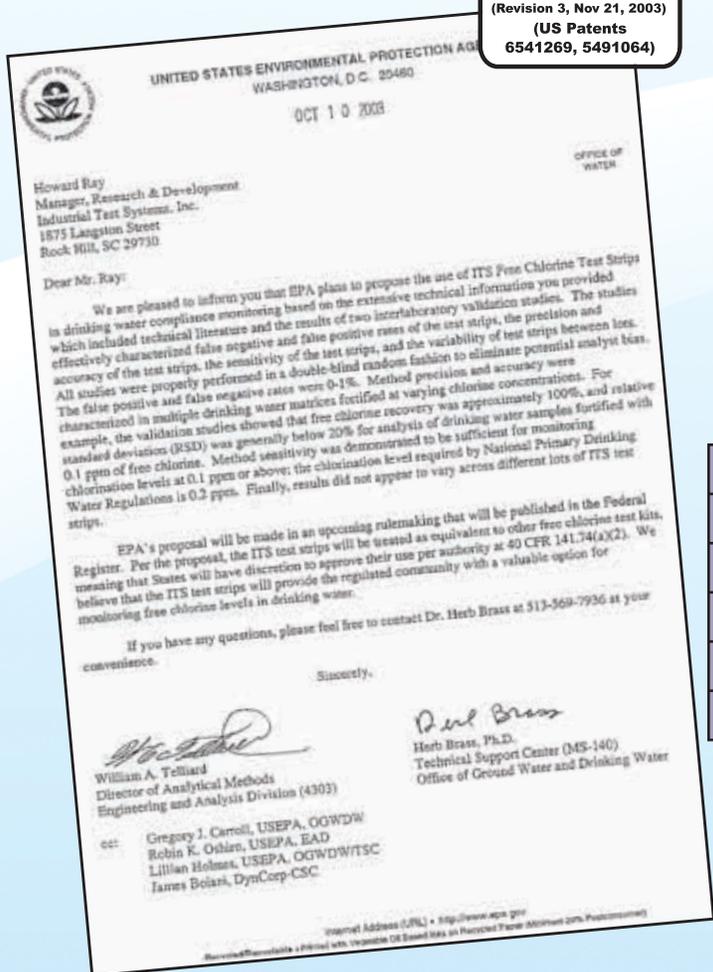
A Comparative Study for Free Chlorine Measurement:

This study was undertaken to confirm the correlation of SenSafe® Free Chlorine Aperture Strip (481026) to HACH Company part # 21055-69 DPD Free Chlorine Reagent Method. All values are the mean of two results. Free Chlorine Aperture Strip results were collected by utilizing a 30 second dip time method. If the test color fell between two color blocks, the value was estimated. The data was statistically analyzed and plotted.

**USEPA
APPROVED
FREE
CHLORINE**
ITS method D99-003
(Revision 3, Nov 21, 2003)
(US Patents
6541269, 5491064)



A 0.9973 correlation was achieved when HACH Company DPD Free Chlorine Method results were compared with SenSafe® Free Chlorine Aperture Strip results.



	ITS Free Chlorine strip	v. EPA 8021 (Hach) & 4500-Cl-G (AWWA)
Laboratory	EP A 8021 0 - 4 ppm	4500-Cl-G 0 - 4 ppm
Southern Testing & Research Labs	0.9560	0.9724
Galbraith Laboratories	0.9876	0.9748
Shuster Laboratories	0.9820	0.9455
MEAN	0.9718	0.9736

Summary of EPA Results / Conclusions:

- Study:** Double-blind random fashion to eliminate potential analyst bias.
- Test Method:** Colorimetric / visual (TMB indicator)
- False positive & false negative rates:** 0 - 1%
- Free Chlorine recovery at varying concentrations:**
- Relative Standard Deviation (RSD) :** below 20%
- LOT variations:** negligible