

Color Stability of Chemical Indicators (CIs) for Vaporized Hydrogen Peroxide (VH2O2) Sterilization in Pack Storage

The 3M[™] Attest[™] Vaporized Hydrogen Peroxide Tri-Metric Chemical Indicator 1348/1348E is more color stable than all competitive VH2O2 CIs tested including ASP, Steris, and SPS Medical. 3M[™] Attest[™] Tri-Metric CI won't change color after sterilization from REJECT / FAIL to ACCEPT / PASS due to residual VH2O2 (off-gassing) during storage for 6 weeks inside a pack.^{1,2}

| Time 0 End of Partial Cycle VH2O2 Exposure | Attest VH202 Tri-Metric Indicator | CEE 14100 Chemical Indicator Strip Chemical Strip Chemical Strip Chemical Strip Chemical Strip | VH2O2 INDICATOR STRIP SPSmeatcot QPS-250R Indicator turns BLUE when exposed to (VH2O2) during the startization process. | Type 4 Indicator Hydrogen Perside ENISO 11146-1 (2.3 mg/H-OL, 10 %, 4 min blue |
|---|--------------------------------------|---|--|---|
| Week 1 Storage Inside Wrapped Pack | M Attest" VH202 Tri-Metric Indicator | GET 14100 GET 14100 Use as STERRAD' Chemical Indicator Strip Ber Aubger from net to color Ber Aubger from net to color Ber Aubger from net to color Ber Aubger from the color Ber Aubeger from the color B | VH2O2 INDICATOR STRIP SPSmeeticut GPS-250R Indexter terms BLUE when exposed to WHOD during the sterilization process. | Type 4 Indicates Hydrogen Fernatio IN 100 11166 (7.2.2 mpl Aut, 10 12.1 mpl Mine |
| Week 2 Storage Inside Wrapped Pack | Any pink in accept zone is a pass. | STERRAD' Chemical Indicator Strip REF, 14100 Law InSTREMO' Reflector on Back and the strip | VH2O2 INDICATOR STRIP SPSmeatcat GPS-250R Indicator turns BLUE when exposed to [VEQ2] during the statistication process. | Type 4 Indicator Hydrogen Persode EN ISO 11140-1/23 mg/ Huo, Mr C 4 min bilue |
| Week 4 Storage Inside Wrapped Pack | Attest" VH202 Tri-Metric Indicator | STERRAD' Chemical Indicator Strp REF. 14100 Use in STRAD' Stratege for Bar Analyse from the color Bar Analyse from the color Bar Analyse from the color Bar Analyse for the color | VH2O2 INDICATOR STRIP SPSmettical GPS-250R Indicator turns BLUE when exposed to (VH3O2) during the startistation process. | Type 4 Indicator Hydrogen Perseide EN ISO 15146-17.23 mg1 H/O, 51 °C. 6 min bilue> green REE 214-2211-223 C-VP4 gee |
| Week 6 Storage Inside Wrapped Pack | Attest" VH222 Tri-Metric Indicator | STEFRAD' Chemical Indicator Strip (REF) 14100 Use a STEPRAD' Schemer only Device of StepRad' Schemer only Device of StepRad' Schemer only Device of StepRad' Schemer on Schem | VH2O2 INDICATOR STRIP SPSmeetical GPS-250R Indicator tarns BLUE when exposed to WEO22 during the statistics process. | Type 4 Indicator Hydrogen Persode EN ISO 11146-11 2.3 mg/H/OL 50 °C. Kmin blue → green REF 214-2231/223 C/VP4 |
| Full Cycle Exposure Sample | Attest VH202 Tri-Metric Indicator | STERRAD' Chemical Indicator Strip [REF] 14100 Use in STERRAD' Statistic roy Bar charger from not be color Bar charger from not be color when exposed to K-0, during processing in we STERVAT failure when exposed to K-0, during processing in we STERVAT failure | VH2O2 INDICATOR STRIP SPSmeatcat GPS-250R Indicator turns BLUE when exposed to (VECO2) during the sterilization process. | No Type 4 Indicator Hydrogen Peroxide EN ISO 11140-1/23 mg1Hr,Ot, 50 °C, 6 min blue → green REF 214-221/-223 °C-V-P-4 gke |

1. Reference 3M Study EM-05-692844. 2. Paper — Color Stability of Chemical I

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