



TITEMS Diagnostic Emulator chemical indicator - Steam



functionality

Titems Diagnostic Emulators Class 6 are designed for use in steam sterilizers, providing an integrated response to various defined combinations of temperature, time and pressure and the presence of steam. Titems Diagnostic Emulators provide an easily identifiable visual confirmation of correct sterilization conditions within the sterilizer chamber; in addition to aiding in the detection of a variety of sterilizer malfunctions and human factor occurrences. A Titems Diagnostic Emulator exceeds the performance of a biological indicator at the stated temperature.

features : immediate verification

Class 6 Emulator

components

The Titems Diagnostic Emulator product line includes :

Qty	Description	Code
CHEMICAL INDICATORS		
250/Box	TITEMS Diagnostic Emulators	AUS508

storage

Titems Diagnostic Emulator strips should be stored at room temperature 10-38°C and normal humidity (30-60%). When stored as directed, the strips have a shelf life of three years from the date of manufacture. The first four digits of the lot number identifies the date of manufacture i.e. a lot number of a 0001xx means the product was manufactured in 2000 in the first month (January).

implementation

Austmel Titems Diagnostic Emulators Class 6 are autonomous single use test strips. In a best practice environment the interpretation of the Titems Diagnostic Emulator would be recorded as part of an intergrated and approved QA system procedure specific to that user environment.

summary

Titems Diagnostic Emulator

- Class Six Performance
- Immediate verification that critical sterilization parameters equivalent to S.A.L. 10-6* have been achieved
- Sterilant specific (only changes in steam)
- Easy interpretation
- Permanent colour change (no reversion of colour change unlike PH indicators)
- Checks steam quality ie wet steam, superheated steam
- Requires correct time & temperature with the presence of steam

quick reference

Titems Diagnostic Emulators Class 6 features



related Chemical Indicator products :



- Titems Monitors
- MEDITRAX® Flash Labels
- Prion Indicators
- Steam Chart 121 Integrator
- MEDITRAX® Surgery Integrator Labels



Medical and Surgical Requisites Pty Ltd

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TITEMS
TIME • TEMP • STEAM

Class 6 Emulator

interpretation guide

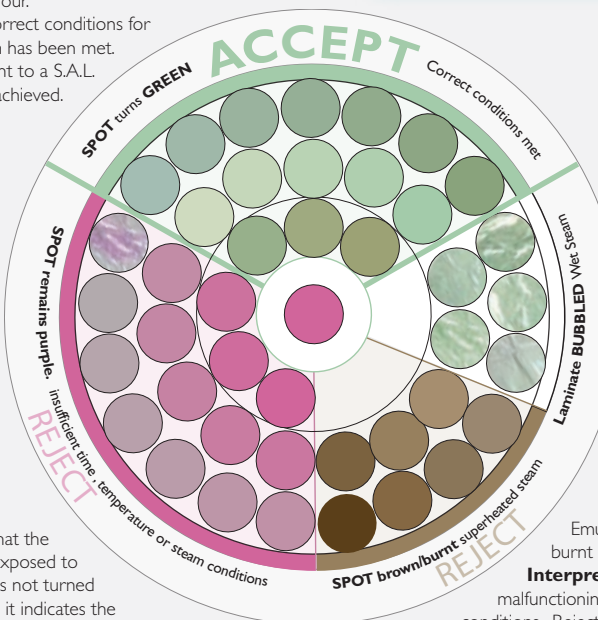
objective : During a successful steam sterilization process the emulator spot printed on the indicator turns from purple to green emulating the colour standard shown in the word "GREEN" printed on each indicator. All traces of the original purple colour of the emulator must completely disappear - Spot appears green in colour.

Interpretation: correct conditions for steamed sterilization has been met. Conditions equivalent to a S.A.L. of 10^{-6} * have been achieved.

ACCEPT

The Emulator Spot is still purple, magenta, grey or contains blotches or traces of these three colours.

Interpretation: insufficient time, temperature or lack of steam. If the indicator spot is still purple, it indicates that the item has not been exposed to steam. If the spot has not turned completely to green it indicates the item has not been exposed to sufficient sterilization conditions of temperature, time or steam equivalent to a S.A.L. of 10^{-6} *. This could be due to poor steam quality or sterilizer failure. **REJECT**



Bubbles in plastic laminate
Interpretation: Wet steam or excess condensation. Uneven colours, air pockets and the plastic laminate crinkled and bubbled up.

Emulator Spot appears burnt and colour is Brown
Interpretation: this indicates malfunctioning superheated steam conditions. Reject the load item and inform the supervisor. **REJECT**

one-on-one Titem Diagnostic Emulator **customer support**
Austmel Pty Ltd is able to offer one-on-one support during office hours on our 1800 074 085 service. This is a valuable service to healthcare personnel who require immediate technical support to use the Titem Diagnostic Emulator. This service is a complete one-on-one person to person level.

background
Austmel Pty Ltd is an Australian owned company established in 1974. Austmel have been directly involved in the supply and development of Sterility Assurance products for over 30 years. Our unique products and systems extend into both the Health Care and Industrials markets, including :

- MEDITRAX® Accountability & Traceability Systems
- Biological and Chemical Sterilization Indicators
- Bowie-Dick Tests
- Sterilization Packaging
- Quality Assurance Consultation
- TMI Electronic Data Loggers
- Surgical Disposables

*The Performance and timing of the Titem Diagnostic Emulator is based on a Sterility Assurance Level (S.A.L) of 10^{-6} . This is calculated on the basis of a 12 log reduction of *B.stearothermophilus* with a Population of 10^8 and $D^{134} = 0.3\text{min}$ in a 134°C cycle without the effects of come-up time.

T 1800 074 085 customer support



Instructions for use of the Titem Diagnostic Emulator:

1. Place a Titem Emulator strip in each pack, peel pouch or tray to be steam sterilized. The strip should be placed at a location in the package that is considered to be the most difficult for steam to reach. For larger packs, use several Titem Emulator strips and place them at several locations in the pack/tray.
2. Process the package as usual in steam sterilizer.
3. Following steam processing, visually verify that the emulator spot has changed colour.
4. If inadequate sterilization conditions are indicated, the item must be re-processed with new indicator strips. Under certain conditions, it may be necessary to reduce the size of the pack or re-package the items and re-sterilization. If there is any doubt about the sterility of the item, it must be considered not sterile.
5. Do not use any strips whose emulator spot is not purple in colour prior to exposure to steam sterilization processing.
6. Titem Emulators can be used in a "Pre-vac", "Downward Displacement" and "Flash" sterilization cycles.

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