

NANO-INDIS

**NANO-MOVING BOUNDARY
STERILIZATION INDICATORS**

**FOR HIGHER CLASSES
(E.G., CLASS 6)**

STERILIZATION INDICATORS

**STERILIZATION
INDICATOR
SELECTIVE TO
STEAM ONLY**

MAKING/TESTING OF SELECTIVE STERILIZATION INDICATORS

- A metallized plastic film was coated with a wedge shaped activator/precursor layer
- The coated film was cut into small strips
- A strip was treated with steam at 120°C for a given time
- The treated strip was scanned and retreated with steam at 120°C and the process was repeated

CLASS 6 MOVING BOUNDARY STEAM STERILIZATION INDICATORS

(A)

(B)



0



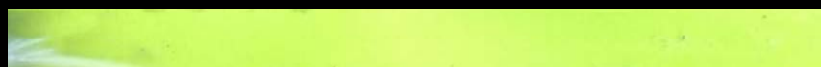
15



21



30



45



Fast moving device



Slow moving device

Minutes at 120°C steam

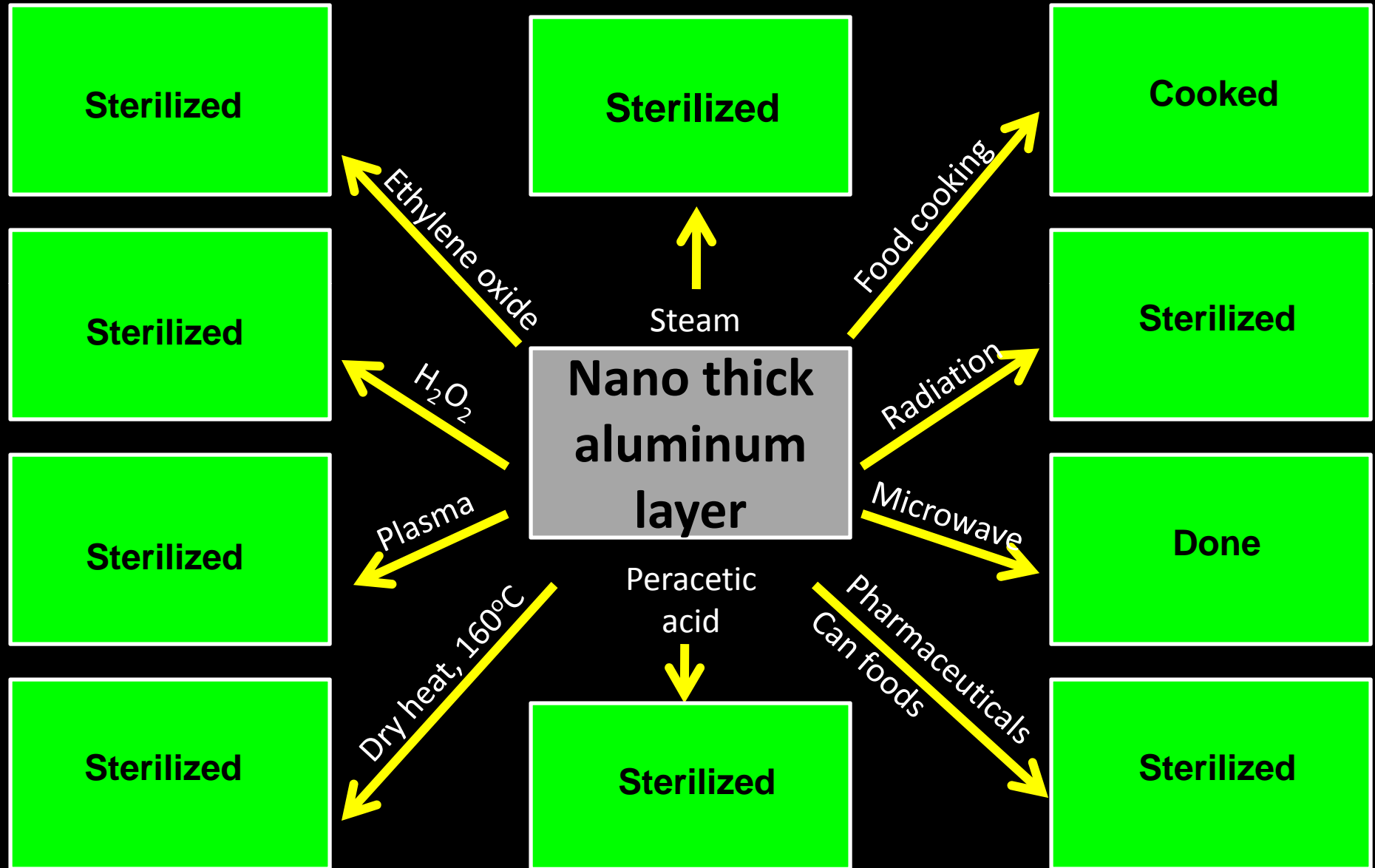
Notes: The samples (fast/left and slow/right) were removed from the sterilizer, scanned and re-treated. Class 5 & 6 sterilization indicators can be created by this technique

ASSURANCE TYPE NANO-INDICATORS

- The following slides summarize some of the assurance type of nano-indicators we have developed using a metallized plastic film

EXAMPLES OF ASSURANCE TYPE NANO-INDIS

(Different activators/precursors are used for different indicators)



NANO-INDIS™

A REVOLUTION IN INDICATOR TECHNOLOGY

**AN INDICATOR TECHNOLOGY FOR
TODAY, TOMORROW & A DAY AFTER**

NANO-CONVERSION TECHNOLOGY

AN IGNORED BUT NOVEL AND
UNIQUE FIELD OF NANOSCIENCE

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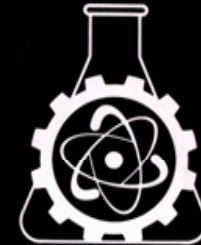
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