

# TWO STEPS FOR FAST, ACCURATE PLATE READING



## CLASSIFICATION ProtoCOL 2 Batch creation

- Differentiate between colour, size and shape
- Upper and lower count limits can be set i.e. <10 cfu or >300 cfu
- Selection of a counting area i.e. whole plate or half plate
- Separation of touching colonies
- Exclusion of unwanted items such as moulds or bubbles

## MEASURE Count using ProtoCOL 2

- Automated count in seconds
- Detection of organisms as small as 43µm
- Average multiple plate counts
- Automatically stores plate counts to a Microsoft SQL server database
- Manually add or delete colonies with an audit trail to comply with GMP/GLP
- Results can be directly transferred to a LIMS system, Excel or entered into one of ProtoCOL 2's customisable reports

PRESERVATIVE EFFICACY TESTING



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COLONY  
MARKERS



ACCURATE  
TOTAL COUNT



REPORTING



ProtoCOL 2 with its easy to use software, built in MS SQL server database and touch screen interface makes the counting of preservative efficacy plates fast, secure and accurate

# PRESERVATIVE EFFICACY TESTING



- Preservative efficacy testing is required for the assessment of the antimicrobial preservation of multiple-use cosmetic and pharmaceutical products
- If a pharmaceutical preparation does not itself have adequate antimicrobial activity, preservatives may be added to prevent proliferation or limit microbial contamination
- The antimicrobial activity of the preparation is investigated by challenging with specified organisms at specified time intervals
- The fundamental principle of the microbial challenge is based on the concept of measuring the survival ability of selected microorganisms that are purposely introduced into a preserved test product system