

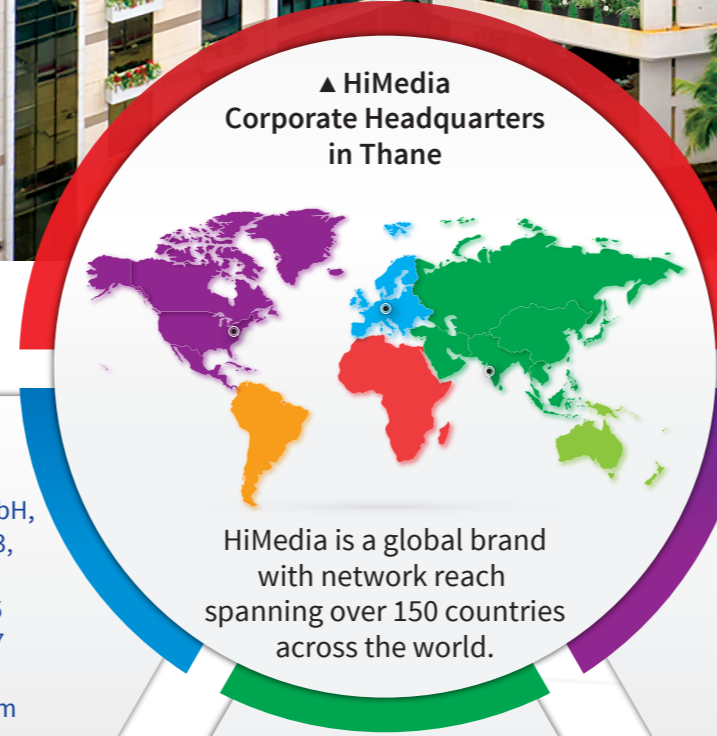
**Technical specifications**

	Reference	HiCFU Automatic Colony Counter
<b>OVERVIEW</b>	Reference	✓
	ABS + S S + Aluminum body	✓
	Counting on pour, surface, Spiral and circle plated Petri dishes	✓
	Counting on chromogenic dishes	✓
	Automatic counting	✓
<b>COUNTING</b>	Minimal size of colony: 0.1 mm	✓
	Counting	✓
	Automatic separation of clustered colonies	✓
	Counting time	✓
<b>SPECIFICATION</b>	Minimal size of colony	✓
	Color Camera	Cmos
	White LED Lighting technology	Dark Field
	LED Lighting system	White LED with Black Background
	Petri dish dimensions	Ø 55 mm - Ø 90 mm
	Results/traceability	Image / Count / Time / Remark
	Languages	English
	Warranty	2 Years
<b>PC MINIMUM REQUIRMENT</b>	Spare parts availability	7 Years
	Windows Operating System	✓
	LAN Port	✓
	USB Port	✓
	Monitor	✓
	Keyboard	✓
Mouse	✓	



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Literature Code: TL875\_00 / HiCFU Colony Counter / 1124

Introducing

LA1143

# HiCFU Colony Counter

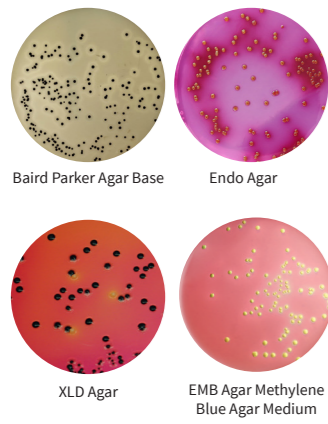


- Colony Counting – Automatic, Easy, Accurate
- State-of-the-art technology
- Trainable to read any Colony
- Record large number of colonies
- Avoid manual error

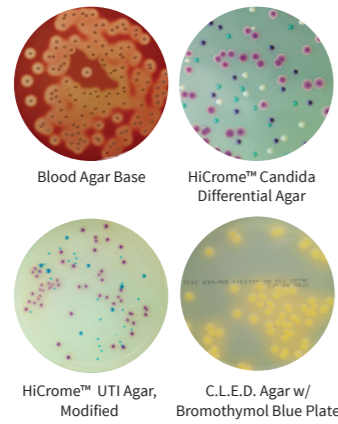
## Introduction

The quality of microbiological media is assessed by the performance against the intended use. Microbiology has wide application in various fields like pharmaceutical, cosmetics, clinical, food, dairy, water, agriculture and much more. The presence of microorganisms is detected qualitatively and quantitatively. The major acceptance criteria for any agarified media is based on the presence of "Colony Forming Unit or CFU" exhibited by different microorganism on specified media. The acceptance criteria is well defined by various pharmacopoeia, ISO standards and reference books.

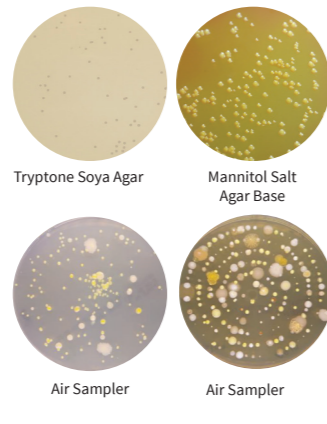
### FOOD



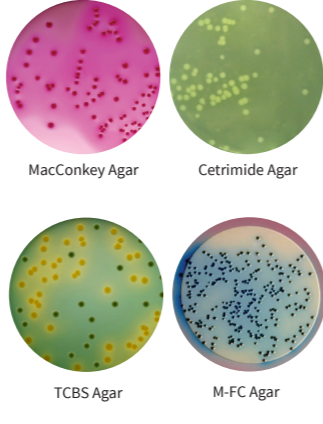
### CLINICAL



### PHARMACEUTICAL



### WATER / DAIRY



## Easy-to-install

- Counting in 1 click
- All functions in 1 single window



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## Application

- All sectors of microbiology testing including food, water, dairy, pharmaceutical etc.
- Growth Promotion testing
- Productivity / Selectivity as per ISO
- Total viable count
- Environmental monitoring

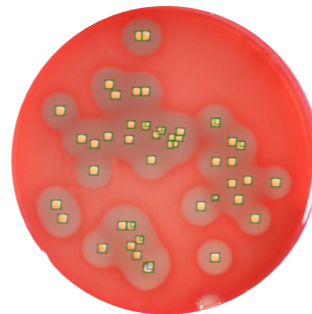
## Live image

- Capture live image
- Each colony is marked with a green square box
- Provision to add / remove colonies on screen

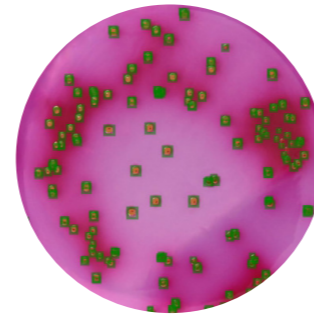


## Training Capability

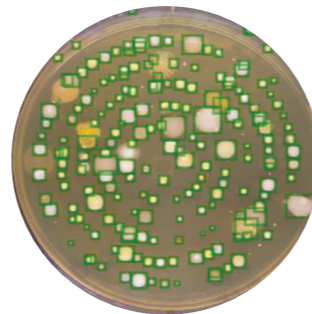
- Can be trained to count colonies with unidentified morphology.
- Cloud-based processing



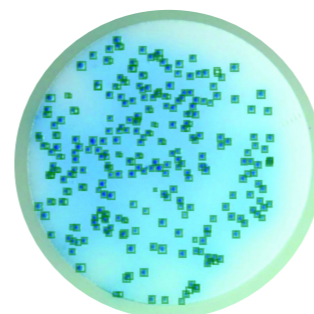
Blood Agar (w/haemolysis)



Endo Agar (w/metallic sheen)



Soybean-Casein Digest Agar (Air Sampler)



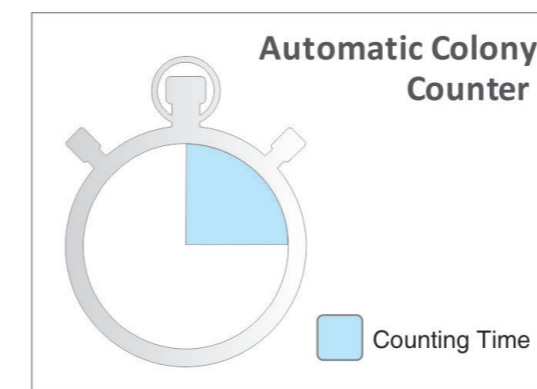
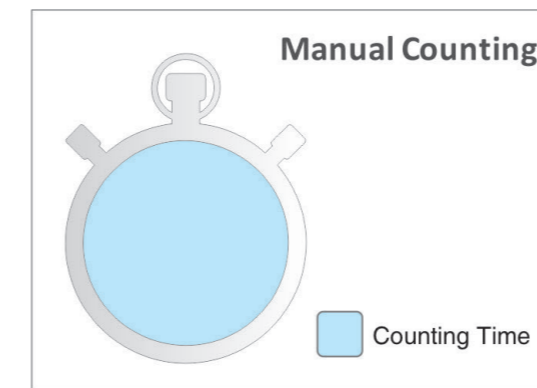
HiCrome™ Chromogenic Coliform Agar w/membrane filter

## Performance of colony counter

- Colony counting and enumeration irrespective of
- Media colour and opacity
- Colony size with  $\geq 0.1$  mm
- Colour and morphology
- Mixed microflora in one click
- Automatically separates confluent colonies
- Ignores agar flaws and air bubbles

## Time saving

- Preset value allows to count colonies in one click :
- Select
- (a) Large and medium colonies
- (b) Small colonies
- Reliable, rapid and effortless counting
- Saves time and manual labour counting
- High speed internet ensures colony counting in less than 30 seconds.
- Minimizes manual counting error

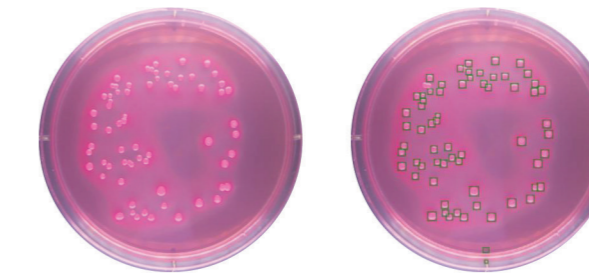


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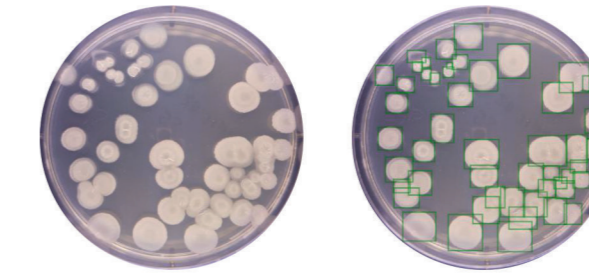
## Instant results

- Reproducible and standardized results
- HiCFU Automatic Colony Counter results : instant and automatic

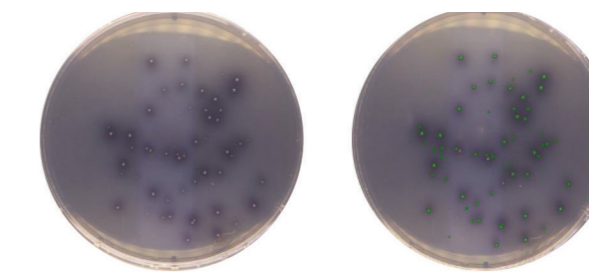
## Training Capability



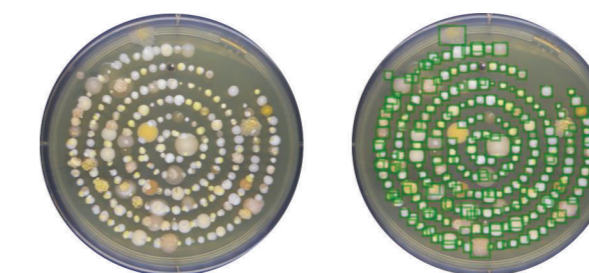
Number of CFU's Per Plate - 65



Number of CFU's Per Plate - 50



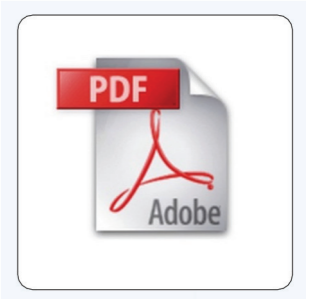
Number of CFU's Per Plate - 116



Number of CFU's Per Plate - 224

## Traceability & reporting

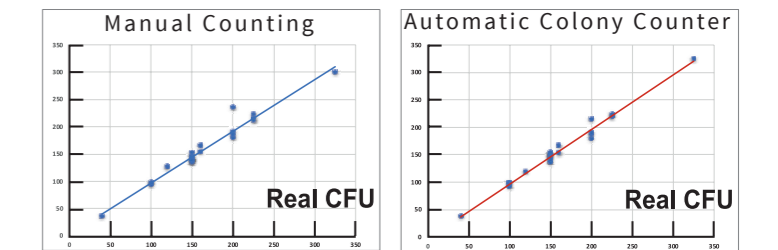
- Export to PDF
- Connection to network
- Can be connected to LIMS, or custom systems by API
- Customization of software can be done as per requirement



## Accuracy and Efficiency

Manual counting of enormous Petri plates is laborious, time consuming and strenuous process which can lead to manual counting error.

Automatic counting is a guarantee of regularity and standardization of analyses, which is the key to ensure accurate and reliable results.



Comparative study done for colony counting using manual technique & automated system. Study was conducted using *Bacillus cereus*, *Escherichia coli*, *Lactobacillus casei* & *Listeria monocytogenes*

## Print your results & Store data

You can export your results to your system PDF format.



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