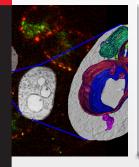
## Living up to Life





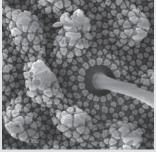
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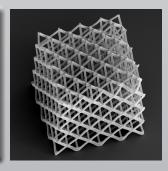
Life Science Research

## **Application Note**

## Bacteria Protocol

related instrument Leica EM CPD300

Medical Research







Industrial
Manufacturing











2

## Bacteria Protocol

#### **INTRODUCTION:**

Species: Escherichia coli

Critical point drying of E. coli with subsequent platinum / palladium coating and SEM analysis

#### PROCEDURE:

Sample Holder:

Sample was inserted into a filter disc (Pore size:  $16 - 40 \mu m$ ) and placed into the filter discs and porous pots holder

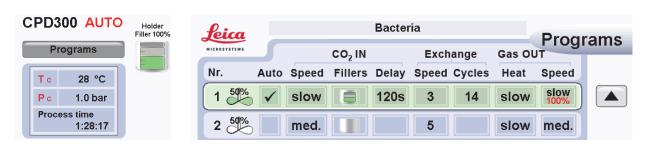
#### **CULTIVATION:**

Cultivate fungi and bacteria on agar containing growth medium for 3 days. Selected parts of the colonies of bacteria

#### FIXATION AND DEHYDRATION:

3% Glutaraldehyde in PBS, pH 7.3 at 4°C	16 h
Distilled water	3x 10 min.
1% aqueous OsO4, at 4°C	16 h
Distilled water	3x 10 min.
Ethanol series: 30%, 50%, 70%, 80%, 90%, 96%, 100% at 25°C	1x 10 min.
Acetone series: 30%, 50%, 100%	1x 10 min.

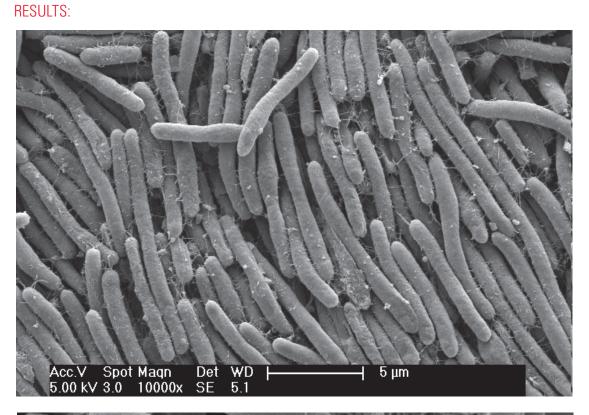
#### CPD300 auto Program:

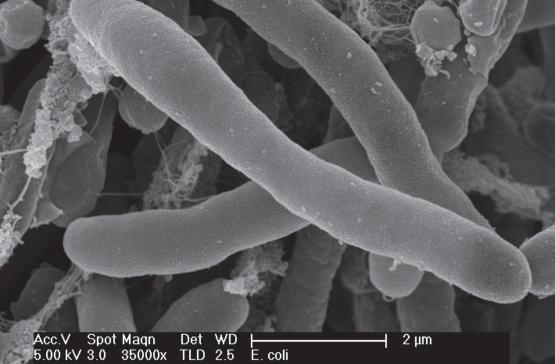


#### Coating:

Mount the dried samples on stubs containing carbon adhesives

Platinum / Palladium coating: 6 nm





E. coli

Courtesy of Dr. W. Müller, University of Utrecht, Netherlands

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