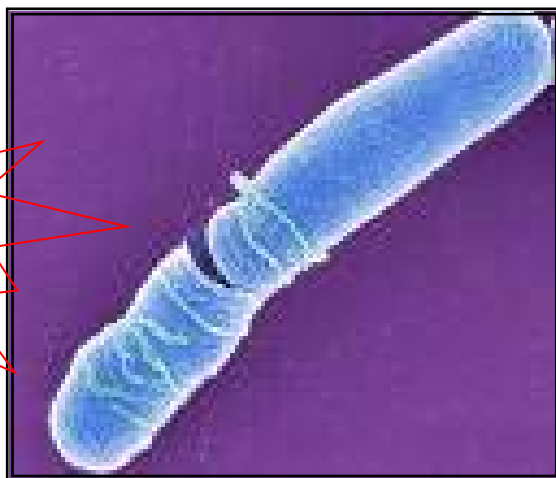


## MICROGEN BIOPRODUCTS LTD

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**Improved substrates:  
stronger, clearer  
reactions**

# MICROGEN<sup>®</sup> BACILLUS-ID

AN IDENTIFICATION SYSTEM FOR THE MESOPHILIC BACILLUS  
SPECIES AND RELATED GENERA ASSOCIATED WITH FOOD  
POISONING AND FOOD SPOILAGE  
PRODUCT CODE: MID-66 (20 TEST KIT)

- ◆ Substrates used are based on conventional methods and fully validated in scientific literature
- ◆ Simple and easy-to-use 24 reaction system
- ◆ Results in 48 hours
- ◆ Results interpreted using new Microgen ID system software (registered users are entitled to free database updates)
- ◆ System designed specifically for Bacillus

**Protecting Food and Health**

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Microgen™ Bacillus-ID has been developed for the identification of mesophilic *Bacillus* spp. and related genera isolated from food, food ingredients and beverages either as food spoilage or food poisoning organisms. *B. cereus* and to a lesser extent *B. licheniformis* are well known as causative agents of food poisoning. Numerous other species and related genera including *B. pumilus*, *B. thuringiensis*, *B. brevis*, *B. mycooides*, *Paenibacillus alvei*, *B. circulans* and *B. sphaericus* have also been reported as causing food poisoning.

The identification of these species has been difficult due to a combination of factors including:

- Confusion over the taxonomy of *Bacillus* spp.
- Variable performance in conventional biochemical test media
- Extensive range of conventional biochemical media required
- Reliance on microscopic endospore morphology

Microgen™ Bacillus-ID overcomes all of these problems with a simple and convenient identification system presented in a convenient microwell format.

Mesophilic *Bacillus* spp. identified:

**Bacillus species**

*B. cereus* group (includes *B. cereus*, *B. thuringiensis*  
*B. mycooides* and *B. weihenstephanensis*)

<i>B. firmus</i>	<i>B. megaterium</i>
<i>B. pumilus</i>	<i>B. licheniformis</i>
<i>B.adius</i>	

<i>B. laevolacticus</i>	<b><u>Virgibacillus species</u></b>
<i>B. coagulans</i>	<i>V. pantothenicus</i>
<i>B. lentus</i>	

<i>B. amyloliquefaciens</i>	<b><u>Paenibacillus species</u></b>
<i>B. subtilis</i>	<i>P. alvei</i>
<i>B. circulans</i>	<i>P. polymyxa</i>
<i>B. insolitus</i>	<i>P. macerans</i>

<i>B. thiaminolyticus</i>	<b><u>Brevibacillus species</u></b>
<i>B. freudenreichii</i>	<i>Br. brevis</i>
<i>B. globisporus</i>	<i>Br. laterosporus</i>
<i>B. sphaericus</i>	

**Additional reagents available:**

- |          |                       |
|----------|-----------------------|
| • MID61A | Nitrate A reagent     |
| • MID61B | Nitrate B reagent     |
| • MID61C | VP I reagent          |
| • MID61D | VP II reagent         |
| • MID61E | TDA reagent           |
| • MID61F | Indole Kovacs reagent |
| • MID61G | Oxidase Strips        |
| • MID61H | Mineral oil           |
| • MID61K | PYR reagent           |

**Other Identification Systems available:**

- |          |                      |
|----------|----------------------|
| • MID-64 | Microgen GN-ID A     |
| • MID-65 | Microgen GN-ID B     |
| • MID-67 | Microgen Listeria-ID |
| • MID-69 | Microgen Staph-ID    |

As with all Microgen Bioproducts biochemical ID systems Microgen Bacillus-ID is supported by the simplest-to-use and most feature-packed Computer Identification System Software (MID60) available, delivering the most comprehensive and up-to-date databases which registered users can update free-of-charge from [www.microgenbioproducts.com](http://www.microgenbioproducts.com)