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<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>POTATO DEXTROSE AGAR (CM0139)</b>		

**POTATO DEXTROSE AGAR**  
(EP, USP, JP, BP)

**CM0139**

**Typical Formula\***

Potato extract	grams per litre	4.0**
Glucose		20.0
Agar		15.0

\*\*4.0g of potato extract are equivalent to 200g of infusion from potatoes

\* adjusted as required to meet performance standards

**Directions**

Suspend 39g in 1 litre of water (purified, as required). Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Mix well and pour into sterile Petri dishes.

If necessary, after sterilization adjust the medium to pH 3.5 by adding Lactic Acid 10% (SR0021) at 50°C. Do not reheat after acidification.

**Physical Characteristics**

Off-white, free-flowing powder  
 Colour on reconstitution - straw 1  
 Moisture level - less than or equal to 7%  
 pH 5.6 ± 0.2 at 25°C (without adjustment)  
 pH 3.5 ± 0.1 at 25°C (after adjustment)  
 Clarity - clear  
 Gel strength - firm, comparable to 15.0g/litre of agar

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### Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Potato Dextrose Agar

### Reactions after incubation at 25°C for 5 days

Tested using acidified medium

Medium is challenged with 10-100 colony-forming units

<i>Candida krusei</i>	ATCC®6258	1-4mm cream colonies
<i>Candida albicans</i>	ATCC®10231	1-4mm cream colonies

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.

Medium is challenged with 1E+04 to 1E+06 colony-forming units

<i>Bacillus subtilis</i>	ATCC®6633	No growth
<i>Escherichia coli</i>	ATCC®8739	No growth
<i>Staphylococcus aureus</i>	ATCC®6538	No growth

Negative strains are inhibited.

Inoculation using stab technique

<i>Aspergillus fumigatus</i>	ATCC®9197	>15mm cream mycelia, blue/green spores
<i>Aspergillus brasiliensis</i>	ATCC®16404	> 15mm white mycelia, black spores
<i>Fusarium culmorum</i>	FMH-2407W	> 15mm white mycelia, orange/red spores
<i>Fusarium oxysporum</i>	FYH-2386W	> 15mm white mycelia, pink/red spores

For mould species, a satisfactory result is represented by typical colonial morphology.

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**Testing performed in accordance with USP/EP/BP.JP**

**Reactions after incubation at 25°C for 5 to 7 days**

Medium is challenged with 10-100 colony-forming units

*Aspergillus brasiliensis*                      ATCC®16404 > 10mm white mycelia, black spores

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium

The Microbiological Quality Control of this product complies with the following pharmacopoeia;

1. European Pharmacopoeia: Current version.
  - 2.6.12 Microbiological Examination of Non-Sterile Products: Harmonised Method: Microbial Enumeration tests
  - 2.6.13 Microbiological Examination of Non-Sterile Products: Tests for Specified Microorganisms. B. Harmonised Method
2. United States Pharmacopoeia: Current version.
  - 61 Microbiological Examination of Non-Sterile Products: Microbial Enumeration tests.
  - 62 Microbiological Examination of Non-Sterile Products: Tests for Specified Microorganisms
3. Japanese Pharmacopoeia: Current version.

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### Revision History

Section / Step	Description of Change	Reason for Change	Reference
Directions	Remove the amount of Lactic Acid required to do the pH adjustment.	Change control	MOC-2024-1258