



# PRODUCT SPECIFICATION SHEET

## Polysorbate 80 Agar (Twin Pack) (DM1846)

### Intended Use

Polysorbate 80 Agar (Twin Pack) (DM1846) is recommended for cultivation of a wide variety of microorganisms.

### Product Summary and Explanation

Polysorbate 80 (also known as polyoxyethylene-sorbitan-20 mono-oleate, or Tween 80) is a nonionic surfactant and neutralizing agent used in the pharmaceutical industry. Polysorbate 80 Agar is a nutritional medium containing neutralizing agent and is recommended for the cultivation of variety of microorganisms.<sup>(1)</sup> This medium increases the metabolic rate of the organisms by neutralizing phenolic disinfectants, hexachlorophene and formalin present in the medium.

### Principles of the Procedure

Polysorbate 80 Agar (Twin Pack) contains peptic digest of animal tissue, which provide the required nutrients for the growth of the organisms. Polysorbate 80 provides fatty acids for the metabolism of the organisms and neutralizes phenolic disinfectants, hexachlorophene and formalin.<sup>(2)</sup>

### Formula / Liter

Ingredients	Gms / Liter
Part A	--
Peptic digest of animal tissue	10.00
Agar	15.00
Part B	--
Polysorbate 80	10.00
Final pH: 7.2 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

### Precautions

1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

### Directions

1. Suspend 25 grams of the Part A in 990 ml distilled water.
2. Heat to boiling, to dissolve the medium completely.
3. Add 10 ml of Part B. Mix well and autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.
4. Mix well and pour into sterile Petri plates.

### Quality Control Specifications

Dehydrated Appearance	Part A : Cream to yellow homogeneous free flowing powder Part B : Colourless clear viscous liquid
Prepared Medium	Yellow coloured clear gel forms in Petri plates
Reaction of the medium (2.5% w/v part A + 1.0% w/v part B)	pH : 7.2 ± 0.2 at 25°C
Gel Strength	Firm, comparable with 1.5% Agar gel





## PRODUCT SPECIFICATION SHEET

**Expected Cultural Response** : Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Sr. No.	Organisms	Results to be achieved		
		Inoculum (CFU)	Growth	Recovery
1.	<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant	≥70%
2.	<i>Bacillus subtilis</i> ATCC 6633	50-100	good-luxuriant	≥70%
3.	<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant	≥70%
4.	<i>Candida albicans</i> ATCC 10231	50-100	good-luxuriant	≥70%

The organisms listed are the minimum that should be used for quality control testing.

### Test Procedure

Refer appropriate references for specific test procedures.

### Results

Refer appropriate references and test procedures for interpretation of results.

### Storage

Store the sealed bottle containing the dehydrated medium at 10 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

### Expiration

Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

### Limitations of the Procedure

1. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
2. Consult appropriate texts for detailed information and recommended procedures.

### Packaging

**Product Name** : Polysorbate 80 Agar (Twin Pack)

**Product Code** : DM1846

**Available Pack sizes** : 500gm

### References

1. Atlas R. M., 1997, In: Handbook of Microbiological Media, 2nd Edition, Lawrence C Parks (Ed.), CRC Press, London.
2. Favero M.S., (chm.) 1967, Microbiological sampling of surfaces, Biological Contamination Control Committee, American Asso. For Contamination Control.

### Further Information

For further information please contact your local MICROMASTER Representative.





# PRODUCT SPECIFICATION SHEET

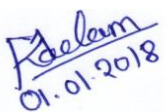
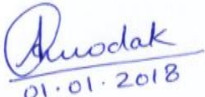

---

**MICROMASTER LABORATORIES PRIVATE LIMITED**

DM1846SS,QAD/FR/024,Rev.00/01.01.2018

Unit 38/39, Kalpataru Industrial Estate,  
Off G.B. Road, Near 'R-Mall' , Thane (W) - 400607. M.S. INDIA.  
Ph: +91-22-25895505, 4760, 4681. Cell: 9320126789.

Email: [micromaster@micromasterlab.com](mailto:micromaster@micromasterlab.com)  
[sales@micromasterlab.com](mailto:sales@micromasterlab.com)

Prepared By	Checked By	Approved By
 01.01.2018	 01.01.2018	 01.01.2018
Microbiologist	Head Quality Control	Head Quality Assurance

**Disclaimer :**

All Products conform exclusively to the information contained in this and other related Micromaster Publications. Users must ensure that the product(s) is appropriate for their application, prior to use. The information published in this publication is based on research and development work carried out in our laboratory and is to the best of our knowledge true and accurate. Micromaster Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are intended for laboratory, diagnostic, research or further manufacturing use only and not for human or animal or therapeutic use, unless otherwise specified. Statements included herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

