

Dextrose Agar

Used for the obtaining total count of microorganisms and for general laboratory purposes

Formula in grams per liter:

Polypeptone	10,00	Dextrose	10,00
Sodium Chloride	5,00	Beef Extract	3,00
Bacteriological Agar	15,00		

Final pH: 6,9 ± 0,2 at 25 °C

Preparation:

Suspend 43 grams of the medium in one litre of distilled water. Mix well until a uniform suspension is obtained. Heat with frequent agitation and boil for one minute. Dispense and sterilize at 121°C (15 lbs. sp.) for 15 minutes.

Uses:

Dextrose Agar is a medium suitable to cultivate a wide variety of microorganisms with or without added blood. The high dextrose concentration yields abundant growth in less time than other media. It can also be used in the microbiological analysis of frozen products, for which it is necessary to acidify the medium with approximately 7,1 ml. of a 10% tartaric acid solution per litre of medium after it has been sterilized and cooled to 45-50°C.

Do not attempt to remelt the medium after it has been acidified because the agar will hydrolyze and not gel correctly.

It is a general use medium but is not appropriate for hemolytic studies because of the high content of dextrose.

Microbiological Tests:

Microorganisms	Growth
<i>N. meningitis</i> ATCC 13090	Satisfactory
<i>N. gonorrhoeae</i> ATCC 19424	Satisfactory
<i>St. pneumoniae</i> ATCC 6303	Satisfactory
<i>St. pyogenes</i> ATCC 19615	Satisfactory
<i>Bordetella pertussis</i> ATCC 9797	Satisfactory
<i>Clostridium perfringens</i> ATCC 12919	Acceptable

