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Технические характеристики на среды для микробных культур, сырье для микробных культуральных сред компании Sigma-Aldrich

Виды товаров: пептоны и экстракты, агар-агар, добавки, минимальные соли, YPD-агар, дрожжевые синтетические добавки для выпадения среднего количества, порошковая среда для роста микроорганизмов, таблетированная среда для роста микробов, азотистая основа дрожжей с аминокислотами, дрожжевые синтетические добавки для выпадения среднего количества и др.

Microbial Culture Media

A microbial culture medium is a mixture of substances that promotes and supports the growth and differentiation of microorganisms. Culture media contain nutrients, energy sources, growth-promoting factors, minerals, metals, buffer salts, and gelling agents (for solid media). The sophisticated formulations of our culture media ensure precise, reproducible, and repeatable microbiological test results. Culture media are still the golden standard in pharmaceutical and food and beverage industry to enumerate and detect microorganisms. Microbial culture media can be prepared as a liquid (broth), a solid (agar plates), or as a semi-solid (deeps). Solid and semi-solid media contain a solidifying agent such as agar or gelatine.

Our portfolio includes a broad range of dehydrated culture media in powder or granules. Our superior granulation technology provides maximum convenience, safety and meets the highest industry performance standards. Ready-to-use media are produced under standardized production conditions and solve numerous problems in microbiology laboratories where time, equipment, and trained personnel are often in short supply. We offer ready-to-use 90- and 55-mm agar plates, liquid media bottles, tubes, or 2 mL ampoules, broths and rinse fluids for your microbial testing application.

CULTURE MEDIA FOR BIOBURDEN TESTING

Bioburden testing is used to determine the number of viable aerobic microorganisms in finished products or raw materials which have not been sterilized. We offer **culture media** designed for slow growers, such as R2A , casein soybean digest, such as tryptic soy agar (TSA) and Sabouraud's dextrose (e.g. SDA) for bioburden testing. Specialized culture media are available for the detection of specified aerobic microorganisms. Standard solid culture media plates (90 mm), liquid media in a selection of bottles and tubes for enrichment cultures and NaCl-Peptone buffers are also available for bioburden testing.

CULTURE MEDIA FOR ENVIRONMENTAL MONITORING

Surface and personnel monitoring are critical tools to keep production plants clean and minimize the risk of contamination. Explore our easy-to-use contact plates, contact slides, and swabs that help monitor the efficiency of these measures.

We offer **culture media** for active air monitoring such as settle and contact plates and agar strips which are used with the respective air monitoring system. A wide variety of settle plate formulations allow continuous passive monitoring at critical points during production. For the critical cleanroom classes with sterile production we supply ICR swabs, triple bagged and gamma-irradiated contact and settle plates.

CULTURE MEDIA FOR MEDIA FILL TESTS

A "media fill" (also known as a "process simulation") test is a critical microbiological test carried out to assess the performance of an aseptic manufacturing procedure by replacing the pharmaceutical or beverage product with a sterile culture media. The ready-to-use culture media for **media fill trials in the pharmaceutical industry** include Tryptic Soy Broth (TSB) and Vegetable Peptone Broth (VPB). These liquid broths are sterile and supplied in 10L bags. Customized bags are available upon request. Our granulated culture media has been carefully formulated to ensure pharmaceutical manufacturers can perform efficient media fill trials with minimal risks. As well as for the RTU media, standard TSB and non-animal origin TSB are available. Our granulated media is irradiated and triple packed, to maximise safety when performing media fill trials. **For media fill tests for beverage** bottling and ice-crusher installations use our granulated Linden Grain medium.

CULTURE MEDIA FOR MYCOPLASMA TESTING

Mycoplasma contamination is a widespread and reoccurring problem in a wide variety of cell culture systems. These microorganisms, which belong to the class Mollicutes, are comparatively small (0.2 – 0.3 µm), lack a cell wall and are thus not susceptible to penicillin or other antibiotics that act on this structure. This allows them to grow to high titers in culture media without exhibiting typical bacterial contamination signs, like turbidity. It is therefore important to test for mycoplasmas at various points in the manufacturing process. We provide a complete portfolio of ready-to use liquid and solid culture media required for detecting mycoplasmas according to European Pharmacopeia 6.1 (2.6.7.) and USP 35 (63).

CULTURE MEDIA FOR PATHOGEN, SPOILAGE ORGANISM & INDICATOR ORGANISM TESTING

Microorganisms in raw materials or finished food and beverages products can cause deterioration of the product and disease in consumers. We offer a broad range of ready-to-use and dehydrated culture media for conventional testing of pathogens, spoilage organisms and indicator organisms. Culture media for the enrichment step can be made available on-demand, at the push of a button, with the revolutionary **ReadyStream® system**, which prepares and dispenses pre-heated media when and where needed. Culture media is 10x concentrated allowing you to dispense up to 100 L of media with a 10 L bag.

CULTURE MEDIA FOR STERILITY TESTING

Sterility testing is a key GMP Microbiology testing requirement to confirm that products are free from viable microorganisms. Sterility testing is vital for medical devices, pharmaceuticals, preparations, tissue materials, and other products that claim to be sterile or free from viable

microorganisms. Sterility testing culture media and rinsing fluids are the critical components of Steritest™ products. They provide the highest level of quality and testing confidence. Soybean-Casein Digest Medium (Trypticase Soy Broth) is suitable to culture both fungi and aerobic bacteria. Fluid Thioglycollate Medium (FTM) is primarily intended for the detection of anaerobic bacteria. However, it also enables the detection of aerobic bacterial. Clear Thioglycollate Medium has the same growth promotion properties as the standard FTM and this alternative formulation brings extra visual clarity versus the FTM, which has slight turbidity or haze.

CULTURE MEDIA SUPPLEMENTS AND ADDITIVES

Many types of media require supplements or additives such as antibiotics, glycerol or Tergitol™ to ensure optimal growth of the microorganisms. Browse our portfolio to find the supplement matching you needs.

L7658
LB Broth (Lennox)
EZMix® powder microbial growth medium

Y1376
Yeast Synthetic Drop-out Medium Supplements
without leucine

71754-M
Terrific Broth - Novagen
Terrific Broth is a highly enriched granulated medium to improve the yield of plasmid DNA from *E. coli*.

H8032
Hanahan's Broth (SOB Medium)
powder microbial growth medium

71753-M
LB Broth, Miller - Novagen
LB Broth MILLER is a granulated medium for the cultivation of E. coli on scales ranging from small cultures to fermentation.

Y1876
Yeast Synthetic Drop-out Medium Supplements
without tryptophan

L3272
LB Broth with agar (Luria low salt)
Powder microbial growth medium

Y1751
Yeast Synthetic Drop-out Medium Supplements
without histidine

L7533
LB Broth with agar (Lennox)
EZMix® powder microbial growth medium

Y1771
Yeast Synthetic Drop-out Medium Supplements
without uracil, leucine, and tryptophan

N3643
NZCYM Broth
Powder microbial growth medium

C4478
S-Gal®/LB Agar Blend
reagent for selection of recombinant bacterial clones

Y2021
Yeast Synthetic Drop-out Medium Supplements
without histidine, leucine, tryptophan, and adenine

Y0750
Yeast Synthetic Drop-out Medium Supplements
without leucine and tryptophan

71757-M
Overnight Express Instant LB Medium - Novagen

B3528
BSK-H Medium
With sodium bicarbonate, suitable for *Borrelia burgdorferi* (Qualified)

Y2146
Yeast Synthetic Drop-out Medium Supplements
without histidine, leucine, and tryptophan

Y1896
Yeast Synthetic Drop-out Medium Supplements
without lysine

N3518
NZ Amine® Broth
Lambda bacteriophage growth medium

L3022

LB Broth (Lennox)
Highly-referenced microbial growth powder medium, low salt, suitable for salt-sensitive *E.coli* culture.

☐
L3522
LB Broth (Miller)
Highly-referenced nutrient-rich microbial growth powder medium, suitable for regular *E.coli* culture

☐
L2542
LB Broth (Miller)
Liquid microbial growth medium

☐
Y0626
Yeast Nitrogen Base Without Amino Acids
Yeast classification medium used for selecting yeasts based on amino acid and carbohydrate requirements

☐
L2897
LB Broth with agar (Lennox)
Highly-referenced microbial growth powder medium with Agar, low salt, suitable for salt-sensitive E. coli culture.

☐
L3147
LB Broth with agar (Miller)
Highly-referenced nutrient-rich microbial growth powder medium with Agar, suitable for regular *E.coli* culture.

☐
Y2377
2x YT medium
Powder microbial growth medium

☐
M6030
M9, Minimal Salts, 5X
powder, minimal microbial growth medium

☐
Y1500
YPD Agar

☐
Y1501
Yeast Synthetic Drop-out Medium Supplements
without uracil

☐
S1797
SOC Medium
For use in transformation

☐
Y1003

2x YT medium
Liquid microbial growth medium

☐

B8291
BSK-H Medium, Complete
sterile-filtered, with 6% rabbit serum, suitable for *Borrelia burgdorferi*

☐

T9179
Terrific Broth
EZMix® powder microbial growth medium

☐

L3397
LB Broth (Luria low salt)
Powder microbial growth medium

☐

L7275
LB Broth (Lennox)
Tablet microbial growth medium

☐

71491
Overnight Express™ Instant TB Medium - Novagen

☐

L7025
LB Broth with agar (Lennox)
Tablet microbial growth medium

☐

Y1250
Yeast Nitrogen Base With Amino Acids
Non-selective yeast growth medium

☐

Y2001
Yeast Synthetic Drop-out Medium Supplements
without histidine, leucine, tryptophan and uracil

Microbial Culture Media Raw Materials

Culture media raw materials are the core ingredients used to prepare own culture media formulations. We offer an extensive portfolio of granulated and powdered biological raw materials that include dehydrated raw materials, such as peptones, agar-agar, and extracts, as well as additives. They are available in many varieties to meet a wide range of microbiology applications. Dehydrated raw materials available in granulated format facilitate safe handling and optimal performance. Granulated raw materials produce less dust contamination of the laboratory environment and dissolve quickly to ensure optimal flow properties. All our raw materials combine handling safety and optimal performance. Our strict quality control and assurance standards are the basis for their production.

Read more about

- **Peptones and Extracts**
- **Agar-Agar**
- **Additives**

PEPTONES AND EXTRACTS

Peptones are a mixture of water-soluble polypeptides, peptides, amino acids, and other substances remaining after protein material digestion. Peptone quality is determined by selected raw material quality, digestion, or hydrolyzation parameters. Extracts are natural, dried, and purified extracts from yeast, plants, and animal-derived material, often used as a source of proteins, sugars, and essential grow factors. Raw materials must be stored to prevent spoilage organism growth. A variety of peptones and extracts are available for our customers that are made from selected quality materials and are suitable for a wide range of microbiological applications. For ethical and environmental reasons, we provide also one of the largest selections of plant peptones and extracts.

AGAR-AGAR

Agar-agar is used to prepare solid, agar-based culture media and is the cell wall polysaccharide that structures the cellular cohesion of seaweed. The ideal agar-agar for microbiological use is free of impurities, heat-resistant bacteria, and any substances that inhibit microorganism growth. The red algae genera containing agar-agar include *Gelidium*, *Gracilaria*, *Petrocladia*, and *Anpheltia*. The agar-agar manufactured from *Gelidium sesquipedale* ensures the best quality for bacteriological purposes.

ADDITIVES

Most selective media require special additives to ensure optimal performance for isolating and identifying specific microorganisms. We provide additional flexibility by offering a wide range of well suited additives, such as antibiotics, selective agents (e.g. bile salts and detergents), glycerol, sugars, buffers, salts, and growth factors. Culture media preparation or the addition of additives is time-consuming and a possible source of contamination. For your convenience, we also offer a wide range of both granulated and powdered culture media ready for media preparation.

A1296
Agar
microbiology tested, suitable for plant cell culture, suitable for cell culture, powder

Y1625
Yeast Extract
for use in microbial growth medium

Y1500
YPD Agar

A7921
Agar
suitable for plant cell culture, powder

M9956
M9 Minimal Salts, 5X
Liquid microbial growth medium

A7002
Agar
ash 2.0-4.5%

A6686
Agar
Bacteriological, microbiology tested, suitable for plant cell culture, granular

A8678
Agar
suitable for plant cell culture

A9799
Agar
High gel strength, suitable for plant cell culture

A4550
Agar
Type A, suitable for plant cell culture

A4675
Agar
Type E, suitable for plant cell culture

A4800
Agar
Type M, suitable for plant cell culture

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