



INSTRUCTIONS FOR USE

PHENYLETHYL ALCOHOL BLOOD AGAR (PEA)

PRODUCTS

AS-113	Phenylethyl Alcohol Blood Agar (PEA)	1 plate / pkg
AS-143	Phenylethyl Alcohol Blood Agar (PEA)	4 plates / pkg

The following products contain PEA as one of multiple components

AS-322	BRU Mono / BBE-PEA Biplate	1 plate each / pkg
AS-303	BRU Mono / LKV Mono / PEA Mono	1 plate each / pkg
AS-323	BRU Mono / PEA Mono / BBE-LKV Biplate	1 plate each / pkg
AS-444	BRU Mono / PEA Mono / LKV Mono / BBE Mono	1 plate each / pkg

INTENDED PURPOSE

TruPRAS™ Anaerobic Culture Media is intended for the transport, preservation, or cultivation of a wide variety of microorganisms from specimens to aid in the isolation of bacteria for in vitro diagnostic and / or research / general laboratory purposes.

INTENDED USERS

Scientists, laboratory, and healthcare professionals trained in anaerobic microbiology techniques working in areas such as clinical, research, industrial, pharmaceutical and veterinary applications.

FORMULATION*

PEA agar is an enriched, selective medium that supports the growth of most obligate anaerobes and gram-positive organisms, including *Staphylococcus* and *Streptococcus* species. With the addition of 5% (v/v) defibrinated sheep blood, it also enhances the recovery of anaerobic bacteria and allows for the observation of hemolytic reactions. Colony morphology on PEA is generally comparable to that seen on Brucella Blood Agar (BRU; Catalog #AS-111), though longer incubation may be required for slow-growing or pigmented anaerobes. The medium contains a nutrient-rich base of casein, soy and meat peptones, yeast extract, dextrose, hemin, and vitamin K₁ to support a broad range of organisms. Phenylethyl alcohol, the selective agent, reversibly inhibits DNA synthesis in facultative gram-negative rods such as *Escherichia coli* and other *Enterobacteriaceae*. It also suppresses swarming by *Proteus* species and *Clostridium septicum*, helping prevent overgrowth in mixed cultures. This selective property makes PEA especially valuable for recovering anaerobic from specimens with mixed bacterial flora. This medium is prepared, dispensed, and packaged under oxygen-free conditions using TruPRAS™ Technology to prevent the formation of oxidized products prior to use. This product is supplied ready to use, with no pre-reduction step required.

Pancreatic digest of casein	10.00	g
Soy peptone	3.00	g
Meat peptone	10.00	g
Dextrose	1.00	g
Yeast extract	2.00	g
Sodium chloride	5.00	g
Sodium bisulfite	0.10	g
Hemin	5.00	mg
Vitamin K ₁	10.00	mg
L-Cystine	0.40	g
Sodium hydroxide	0.16	g



Agar	15.00	g
Phenylethyl alcohol	2.70	mL
Defibrinated sheep blood	45.50	mL
DI Water	1.00	L

*Approximate formula. Adjusted and/or supplemented as required to meet performance criteria.

Final pH: 7.1 ± 0.4 at 25°C

Final weight: 16.0 g ± 1.6 g mono plate

Final weight: 8.0 g ± 0.8 g biplate

PRECAUTIONS

For IN VITRO DIAGNOSTIC USE only. Utilize approved biohazard precautions and aseptic technique when using this product. This product is for use by properly trained and qualified personnel only. Sterilize all biohazard waste prior to disposal. This product is manufactured as a single use device.

Report serious incidents that occur in direct relation to this product to tech@biolog.com. As necessary, report serious incidents to the regulatory authority in which the user is established.

This product may contain components of animal origin. All components of animal origin have been sourced from Bovine Spongiform Encephalopathy- (BSE-) free and Transmissible Spongiform Encephalopathy- (TSE-) free countries. Certified knowledge of the origin of animal derived components does not guarantee the absence of transmissible pathogenic agents. It is recommended that Universal Precautions be observed.

When working with anaerobic culture media, the potential for ergonomic hazards may exist due to repetitive motions, awkward postures, improper bench/chair heights or poor lighting. Although it is beyond the scope and provision of products by Anaerobe Systems, it should be recognized and mitigated by the end user in the laboratory environment.

STORAGE AND SHELF LIFE

Storage: Upon receipt, store at room temperature (15 – 25°C) in original package until used. Avoid overheating or freezing. Do not use media if there are signs of deterioration (shrinking, cracking, or discoloration due to oxidation of media) or contamination. The expiration date applies to the product in its original packaging and stored as directed. Do not use product past the expiration date shown on the label.

Shelf Life: 4 months from the date of manufacture.

PROCEDURE

Specimen Collection: Protect specimens for anaerobic culture from oxygen during collection, transportation, and processing. Consult appropriate references for detailed instructions concerning collection and transportation of anaerobes. The selection of specimens for culture is made by physicians or scientists collecting the sample.

Methods for Use: PEA should be inoculated directly with a specimen or from a broth that has been inoculated from a specimen. Streak plates with inoculum to obtain isolated colonies and immediately place into an anaerobic atmosphere, incubating at 35 – 37°C for 18 – 48 hours. Extended periods of incubation may be required to recover slower growing anaerobes. Extended incubation time may also result in loss of inhibition of the medium which can result in the overgrowth of organisms that should be inhibited or showing poor growth. Detailed instructions for processing anaerobic cultures can be found in the listed references. As packaged, this medium constitutes a qualitative, manual method.



MATERIALS REQUIRED BUT NOT PROVIDED

Standard microbiological supplies and equipment such as loops, saline blanks, slides, staining supplies, microscope, incinerator / autoclave, incubators, anaerobic chamber / anaerobic jars, disinfectant, other culture media, and serological / biochemical reagents.

INTERPRETATION OF RESULTS

PEA will support good growth of most anaerobes found in a specimen. Growth of facultative anaerobic gram-negative rods, like *Escherichia coli* and swarming of *Proteus mirabilis*, will exhibit poor to no growth on PEA.

LIMITATIONS

PEA agar will not provide complete information for the identification of bacterial isolates. Additional test procedures and media are required for complete identification. Some organisms that would normally grow on PEA agar may be inhibited. It is recommended that a non-inhibitory medium, such as Brucella Blood Agar (BRU, catalog #: AS-111) also be inoculated from the same specimen to assure recovery of all species present. Some strains of facultative organisms (which should be inhibited) may grow on PEA. A test for aerotolerance should be performed to confirm that each colony type is an obligate anaerobe. Consult reference materials for additional information.

QUALITY CONTROL

The following organisms are routinely used for quality control testing at Anaerobe Systems using the specifications outlined in the CLSI document M22-A3: Quality Control for Commercially Prepared Microbiological Culture Media.

Organism Tested	ATCC® #	Results
Bacteroides fragilis*	25285	Growth
Prevotella melaninogenica*	25845	No growth
Fusobacterium necrophorum	25286	Growth
Fusobacterium nucleatum*	25586	No growth
Clostridium perfringens*	13124	Growth
Peptostreptococcus anaerobius*	27337	Growth
Staphylococcus aureus	25923	Growth
Enterococcus faecalis	29212	Growth
Escherichia coli	25922	Poor to no growth
Proteus mirabilis	12453	Poor to no growth
Cutibacterium acnes	6919	Growth
Clostridioides difficile	9689	Growth

* Organisms recommended by CLSI for quality control testing of anaerobic blood agars.

† Pigment production may require more than 48 hours of incubation

User Quality Control: The final determination to the extent and quantity of user laboratory quality control must be determined by the end user.

If the nutritive/inhibitory capacity of this medium is to be tested for performance, it is recommended that the following ATCC® organisms be evaluated for growth.

Organism	ATCC® #	Expected Results
Bacteroides fragilis	25285	Growth
Prevotella melaninogenica	25845	No growth
Fusobacterium nucleatum	25586	No growth
Escherichia coli	25922	Poor to no growth



Physical Appearance: PEA should appear opaque to translucent red in color.

ATCC® is a registered trademark of American Type Culture Collection.

REFERENCES

1. CLSI. *Principles and Procedures for Detection of Anaerobes in Clinical Specimens; Approved Guideline*. CLSI document M56-A. Clinical and Laboratory Standards Institute; 2014
2. Leber AL, Burnham CA, eds. *Clinical Microbiology Procedures Handbook*. 5th ed. 4 vols. Washington, DC: ASM Press; 2023.
3. Carroll KC, Pfaller MA, eds. *Manual of Clinical Microbiology*. 13th ed. 4 vols. Hoboken, NJ: Wiley-Blackwell; 2023.
4. Jousimies-Somer HR, Sutter VL, eds. *Wadsworth-KTL Anaerobic Bacteriology Manual*. 6th ed. Belmont, CA: Star Publishing Company; 2002.
5. CLSI. *Quality Control for Commercially Prepared Microbiological Culture Media; Approved Standard- Third Edition*. CLSI document M22-A3. Wayne, PA: Clinical and Laboratory Standards Institute; 2004.
6. U.S. Department of Agriculture, Animal and Plant Health Inspection Service. *Animal Health Status of Regions*. Published March 12, 2025. <https://www.aphis.usda.gov/regionalization-evaluation-services/region-health-status>
7. European Commission. *Note for guidance on minimising the risk of transmitting animal spongiform encephalopathy agents via human and veterinary medicinal products (EMA/410/01 Rev. 3)*. Published March 5, 2011. <https://op.europa.eu/en/publication-detail/-/publication/3392e464-ba89-4ae4-955c-a07f617c8e06/language-en>

GLOSSARY OF SYMBOLS

SYMBOL	TITLE	DESCRIPTION	STANDARD	REF#
	Catalog number	Indicates the manufacturer's catalog number so that the medical device can be identified.	ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling, and information to be supplied	5.1.1
	Lot number/ Batch code	Indicates the manufacturer's batch code so that the batch or lot can be identified.	ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling, and information to be supplied	5.1.5
	Use-by date	Indicates the date after which the medical device is not to be used.	ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling, and information to be supplied	5.1.4
	Authorized Representative	Indicates the Authorized Representative in the identified country or jurisdiction.	ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling, and information to be supplied	5.1.2
	Do not re-use/ Single use only	Indicates a medical device that is intended for one single use only.	ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling, and information to be supplied	5.4.2
	Consult instructions for use or consult electronic instructions for use	Indicates the need for the user to consult the instructions for use.	ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling, and information to be supplied	5.4.3
	Temperature limit	Indicates the temperature limits to which the medical device can be safely exposed.	ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling, and information to be supplied	5.3.7



	In vitro diagnostic medical device	Indicates that a medical device is intended to be used as an in vitro diagnostic medical device	ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling, and information to be supplied	5.5.1
	CE Mark European Conformity	Designates that the product labeled is authorized for sale in European countries.	EU IVDR (EU) 2017/746	

AUTHORIZED REPRESENTATIVE INFORMATION

EC REP Casus Europe B.V.
 Lange Vlietstraat 2b
 3511 BK Utrecht
 The Netherlands

CH REP Casus Switzerland GmbH
 Hinterbergstrasse 49
 6312 Steinhausen
 Switzerland

REVISION 3

Additions: None

Changes: Extended shelf life from 90 days to 4 months.

Deletions: None