



INSTRUCTIONS FOR USE

PEPTONE YEAST EXTRACT BROTH WITH DL-THREONINE (PY THREONINE)

PRODUCTS

AS-856 Peptone Yeast Extract Broth with DL-Threonine (PY THREONINE) – 7 mL tube 10 tubes / 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*

PY THREONINE is a non-selective broth used for the growth of anaerobic bacteria. These media are supplemented with hemin and vitamin K₁ to support the recovery of fastidious organisms such as *Prevotella* spp., *Porphyromonas* spp., and the *Bacteroides fragilis* group. Resazurin is included as a redox indicator. PRAS (pre-reduced anaerobically sterilized) biochemicals are considered the gold standard for biochemical testing and characterization of anaerobes. PY THREONINE was originally formulated by the VPI group for chromatographic analysis of threonine utilization, indicated by an increase in propionic acid. When cultured in this medium, appropriate control strains should produce characteristic metabolic profiles detectable by gas chromatography. 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	20.00	g
Yeast extract	10.00	g
L-cysteine hydrochloride	0.50	g
Hemin	5.00	mg
Vitamin K ₁	10.00	mg
Resazurin	1.00	mg
Calcium chloride	0.008	g
Magnesium sulfate	0.016	g
Potassium phosphate monobasic	0.04	g
Potassium phosphate dibasic	0.04	g
Sodium chloride	0.08	g
Sodium bicarbonate	0.32	g
DL-Threonine	3.00	g
DI Water	1.00	L

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

Final pH: 7.1 ± 0.3 at 25°C

Final volume: 7.0 mL ± 0.7 mL



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 (discoloration due to oxidation of media), contamination, broken cap, or cracked glass. 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: 1 year 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: PY THREONINE should be inoculated directly with a pure culture of the organism. This media is supplied in tubes with a screw cap fitted with a Hungate-style septum, allowing for direct inoculation using a syringe. Disinfect the rubber septum with alcohol before piercing it with a sterile needle. Slowly inject the inoculum into the medium. Immediately place the inoculated tube into an anaerobic atmosphere and incubate at 35 – 37°C for 24 to 48 hours. Extended incubation may be necessary for the recovery of slow-growing anaerobes. Refer to the listed references for detailed instructions on the processing of anaerobic cultures. 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

Uninoculated PY THREONINE should show only trace amounts, if any, of volatile or nonvolatile fatty acids when analyzed by gas-liquid chromatography. When used properly with appropriate control strains, this medium will produce



characteristic metabolic profiles detectable by gas-liquid chromatography. For guidance on interpreting chromatographic results, consult appropriate references.

LIMITATIONS

PY THREONINE will not provide complete information for identification of bacterial isolates. Additional test procedures and media are required for complete identification. In some cases, this media may not grow every anaerobic strain. Consult reference materials for additional information.

QUALITY CONTROL

PY THREONINE is suitable for use in threonine utilization tests via chromatographic methods. However, quality control at Anaerobe Systems is limited to growth performance only. 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	Growth
Phocaeicola vulgatus	8482	Growth
Fusobacterium nucleatum	25586	Growth
Fusobacterium necrophorum	25286	Growth
Clostridium perfringens	13124	Growth
Peptostreptococcus anaerobius	27337	Growth

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

Organism	ATCC® #	Results
Bacteroides fragilis	25285	Growth
Prevotella melaninogenica	25845	Growth
Peptostreptococcus anaerobius	27337	Growth
Fusobacterium necrophorum	25286	Growth

Physical Appearance: PY THREONINE should appear as a clear golden-yellow liquid.

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



REVISION 4

Additions: Intended Use, Intended Users, Animal Origin Statement, Ergonomics Precautions, Serious Incident Report Contact Information, Glossary of Symbols

Changes: Title change from Product Insert to Instructions for Use. Room temperature from 20 – 25°C to 15 – 25°C. References updated. Contact information.

Deletions: None