



INSTRUCTIONS FOR USE

YEAST CASITONE FATTY ACIDS BROTH WITH CARBOHYDRATES (YCFAC BROTH)

PRODUCTS

AS-680 Yeast Casitone Fatty Acids Broth with Carbohydrates (YCFAC BROTH) – 7 mL tube	10 tubes / pkg
AS-6801 Yeast Casitone Fatty Acids Broth with Carbohydrates (YCFAC BROTH)– 100 mL bottle	1 bottle / pkg
AS-6802 Yeast Casitone Fatty Acids Broth with Carbohydrates (YCFAC BROTH)– 250 mL bottle	1 bottle / pkg
AS-6805 Yeast Casitone Fatty Acids Broth with Carbohydrates (YCFAC BROTH) – 500 mL bottle	1 bottle / 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*

YCFAC BROTH is an enriched, non-selective medium designed for the growth of anaerobic and other fastidious microorganisms. It is particularly useful for isolating and cultivating a broad range of gut bacteria, including *Faecalibacterium prausnitzii*. The nutritive base consists of yeast extract and pancreatic digest of casein. The medium is further enriched with vitamins, carbohydrates, and fatty acids to support the growth of even the most fastidious gut microbes. 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.

Casitone	10.00	g
Yeast extract	2.50	g
Sodium bicarbonate	4.00	g
Glucose	2.00	g
Cellobiose	2.00	g
Maltose	2.00	g
Potassium phosphate monobasic	0.45	g
Potassium phosphate dibasic	0.45	g
Sodium chloride	0.90	g
Ammonium sulfate	0.90	g
Magnesium sulfate heptahydrate	0.09	g
Calcium chloride	0.09	g
L-cysteine hydrochloride	1.00	g
Hemin	10.00	mg
Vitamin mix	10.00	mL
Resazurin	1.00	mg
Volatile fatty acid solution	2.90	mL
DI Water	1.00	L



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

Final pH: 6.8 ± 0.5 at 25°C

Final volume: 7.0 mL \pm 0.7 mL for AS-680

Final volume: 100.0 mL \pm 10.0 mL for AS-6801

Final volume: 250.0 mL \pm 25.0 mL for AS-6802

Final volume: 500.0 mL \pm 50.0 mL for AS-6805

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: YCFAC BROTH should be inoculated directly with a specimen or with isolated colonies. Immediately place into an anaerobic atmosphere and incubate at 35 – 37°C for 18 – 48 hours. Extended periods of incubation may be required to recover slower growing anaerobes. 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

YCFAC BROTH is a highly nutritious broth media used for the growth of fastidious and non-fastidious microorganisms, including *Faecalibacterium prausnitzii*, from a variety of specimens.

LIMITATIONS

YCFAC BROTH 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

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
<i>Faecalibacterium prausnitzii</i>	27768	Growth
<i>Bacteroides thetaiotaomicron</i>	29741	Growth
<i>Bifidobacterium longum</i>	15707	Growth
<i>Lactobacillus acidophilus</i>	4356	Growth
<i>Bacteroides fragilis</i>	25285	Growth
<i>Prevotella melaninogenica</i>	25845	Growth
<i>Fusobacterium nucleatum</i>	25586	Growth
<i>Clostridium perfringens</i>	13124	Growth
<i>Clostridioides difficile</i>	9689	Growth
<i>Escherichia coli</i>	25922	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
<i>Bacteroides fragilis</i>	25285	Growth
<i>Clostridium perfringens</i>	13124	Growth
<i>Faecalibacterium prausnitzii</i>	27768	Growth
<i>Escherichia coli</i>	25922	Growth

Physical Appearance: YCFAC BROTH should appear translucent and light gold in color. Upon exposure to oxygen, the medium may turn light pink. A black or rust-colored precipitate may form during prolonged storage; this does not affect the performance of the medium.

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. Browne HP, Forster SC, Anonye BO, et al. Culturing of ‘unculturable’ human microbiota reveals novel taxa and extensive sporulation. *Nature*. 2016;533(7604):543-546.
7. Duncan SH, Hold GL, Harmsen HJ, Stewart CS, Flint HJ. Growth requirements and fermentation products of *Fusobacterium prausnitzii*, and a proposal to reclassify it as *Faecalibacterium prausnitzii* gen. nov., comb. nov. *Int J Syst Evol Microbiol*. 2002;52(6):2141-2146.
8. Lopez-Siles M, Khan TM, Duncan SH, Harmsen HJ, Garcia-Gil LJ, Flint HJ. Cultured representatives of two major phylogroups of human colonic *Faecalibacterium prausnitzii* can utilize pectin, uronic acids, and host-derived substrates for growth. *Appl Environ Microbiol*. 2012;78(2):420-428.
9. 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>
10. 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



IVD	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	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 Vliestraat 2b
 3511 BK Utrecht
 The Netherlands

CH REP
 Casus Switzerland GmbH
 Hinterbergstrasse 49
 6312 Steinhausen
 Switzerland

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