INSTRUCTIONS FOR USE

PEPTONE YEAST EXTRACT BROTH BASED MEDIA

PRODUCTS

AS-821	Peptone Yeast Extract Broth (PY)	10 tubes / pkg
AS-834	Peptone Yeast Extract Broth with Adonitol (PY ADONITOL)	10 tubes / pkg
AS-836	Peptone Yeast Extract Broth with Amygdalin (PY AMYGDALIN)	10 tubes / pkg
AS-824	Peptone Yeast Extract Broth with Arabinose (PY ARABINOSE)	10 tubes / pkg
AS-835	Peptone Yeast Extract Broth with Arginine (PY ARGININE)	10 tubes / pkg
AS-837	Peptone Yeast Extract Broth with Cellobiose (PY CELLOBIOSE)	10 tubes / pkg
AS-838	Peptone Yeast Extract Broth with Dulcitol (PY DULCITOL)	10 tubes / pkg
AS-839	Peptone Yeast Extract Broth with Erythritol (PY ERYTHRITOL)	10 tubes / pkg
AS-833	Peptone Yeast Extract Broth with Esculin (PY ESCULIN)	10 tubes / pkg
AS-840	Peptone Yeast Extract Broth with Fructose (PY FRUCTOSE)	10 tubes / pkg
AS-841	Peptone Yeast Extract Broth with Galactose (PY GALACTOSE)	10 tubes / pkg
AS-857	Peptone Yeast Extract Broth with Glucose & Bile (PYG BILE)	10 tubes / pkg
AS-858	Peptone Yeast Extract Broth with Glucose & Formate/Fumarate (PYG FF)	10 tubes / pkg
AS-860	Peptone Yeast Extract Broth with Glucose & Gelatin (PYG GELATIN)	10 tubes / pkg
AS-825	Peptone Yeast Extract Broth with Glucose & Polysorbate 80 (PYG TWEEN)	10 tubes / pkg
AS-842	Peptone Yeast Extract Broth with Glycerol (PY GLYCEROL)	10 tubes / pkg
AS-843	Peptone Yeast Extract Broth with Glycogen (PY GLYCOGEN)	10 tubes / pkg
AS-844	Peptone Yeast Extract Broth with Inositol (PY INOSITOL)	10 tubes / pkg
AS-845	Peptone Yeast Extract Broth with Inulin (PY INULIN)	10 tubes / pkg
AS-846	Peptone Yeast Extract Broth with Lactate (PY LACTATE)	10 tubes / pkg
AS-826	Peptone Yeast Extract Broth with Lactose (PY LACTOSE)	10 tubes / pkg
AS-847	Peptone Yeast Extract Broth with Maltose (PY MALTOSE)	10 tubes / pkg
AS-848	Peptone Yeast Extract Broth with Mannitol (PY MANNITOL)	10 tubes / pkg
AS-849	Peptone Yeast Extract Broth with Mannose (PY MANNOSE)	10 tubes / pkg
AS-850	Peptone Yeast Extract Broth with Melezitose (PY MELEZITOSE)	10 tubes / pkg
AS-851	Peptone Yeast Extract Broth with Melibiose (PY MELIBIOSE)	10 tubes / pkg
AS-853	Peptone Yeast Extract Broth with Raffinose (PY RAFFINOSE)	10 tubes / pkg
AS-827	Peptone Yeast Extract Broth with Rhamnose (PY RHAMNOSE)	10 tubes / pkg
AS-854	Peptone Yeast Extract Broth with Ribose (PY RIBOSE)	10 tubes / pkg
AS-828	Peptone Yeast Extract Broth with Salicin (PY SALICIN)	10 tubes / pkg
AS-855	Peptone Yeast Extract Broth with Sorbitol (PY SORBITOL)	10 tubes / pkg
AS-829	Peptone Yeast Extract Broth with Starch (PY STARCH)	10 tubes / pkg
AS-830	Peptone Yeast Extract Broth with Sucrose (PY SUCROSE)	10 tubes / pkg
AS-831	Peptone Yeast Extract Broth with Trehalose (PY TREHALOSE)	10 tubes / pkg
AS-859	Peptone Yeast Extract Broth with Xylan (PY XYLAN)	10 tubes / pkg
AS-832	Peptone Yeast Extract Broth with Xylose (PY XYLOSE)	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 Broth Based Media are enriched media primarily used for the cultivation and biochemical characterization of anaerobic bacteria. Most formulations are nonselective and support the growth of a wide range of anaerobes, including fastidious organisms such as *Prevotella* spp., *Porphyromonas spp.,* and the *Bacteroides fragilis* group. These media are supplemented with hemin and vitamin K_1 and include resazurin as a redox indicator to monitor anaerobic conditions.

PYG Bile is a selective formulation that contains 20% oxgall to inhibit the growth of bile-sensitive organisms, allowing for the selective growth of bile-resistant anaerobes such as members of the *Bacteroides* fragilis group.

These TruPRAS™ (pre-reduced anaerobically sterilized) broths are considered the gold standard for biochemical testing of anaerobes. When combined with specific substrates, they can be used to evaluate biochemical utilization or determine if a compound stimulates or inhibits growth. PY and PYG broths were originally developed by the VPI group for use in chromatographic analysis of fermentation end-products, which aids in the characterization of clinically relevant anaerobic species. 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.

Peptone Yeast Extract Broth Basal Medium

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
DI Water	1.00	L

The following components are added per liter to the basal medium to produce the corresponding formulations:

PY ADONITOL	Adonitol	5.00	g
PY AMYGDALIN	Amygdalin	5.00	g
PY ARABINOSE	Arabinose	5.00	g
PY ARGININE	Arginine	3.00	g
PYG BILE	Oxgall	20.00	g
	Glucose	10.00	g
PY CELLOBIOSE	Cellobiose	10.00	g
PY DULCITOL	Dulcitol	10.00	g
PY ERYTHRITOL	Erythritol	5.00	g
PY ESCULIN	Esculin	5.00	g
PY FRUCTOSE	Fructose	10.00	g
PYG FF	Formate	1.80	g
	Fumarate	1.80	g
	Glucose	10.00	g
PY GALACTOSE	Galactose	10.00	g
PYG GELATIN	Gelatin	120.00	g
	Glucose	10.00	g

PY GLYCEROL	Glycerol	8.00	mL
PY GLYCOGEN	Glycogen	5.00	g
PY INOSITOL	Inositol	10.00	g
PY INULIN	Inulin	10.00	g
PY LACTATE	Lactic acid	7.00	mL
PY LACTOSE	Lactose	10.00	g
PY MALTOSE	Maltose	10.00	g
PY MANNITOL	Mannitol	10.00	g
PY MANNOSE	Mannose	10.00	g
PY MELEZITOSE	Melezitose	5.00	g
PY MELIBIOSE	Melibiose	5.00	g
PY RAFFINOSE	Raffinose	10.00	g
PY RHAMNOSE	Rhamnose	10.00	g
PY RIBOSE	Ribose	5.00	g
PY SALICIN	Salicin	10.00	g
PY SORBITOL	Sorbitol	10.00	g
PY STARCH	Starch	10.00	g
PY SUCROSE	Sucrose	10.00	g
PY TREHALOSE	Trehalose	5.00	g
PYG TWEEN	Polysorbate 80	0.25	mL
	Glucose	10.00	g
PY XYLAN	Xylan	10.00	g
PY XYLOSE	Xylose	10.00	g

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

Final pH: 7.2 ± 0.3 at 25°C
Final volume: 7.0 mL ± 0.7 mL
Final volume: 10.0 mL ± 1.0 mL for AS-825 PYG TWEEN, AS-846 PY LACTATE, & AS-858 PYG FF
Final volume: 5.0 mL ± 0.5 mL for AS-860 PYG GELATIN

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 Broth Based Media 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 anerobic 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

General Fermentation: When used properly, fermentation is indicated by a decrease in pH following incubation. A drop in pH suggests acid production as a metabolic end product. Uninoculated Peptone Yeast Extract Broth Based Media should yield only trace amounts, if any, of volatile and nonvolatile fatty acids when analyzed by gas-liquid chromatography. PYG (catalog #: AS-822) cultures inoculated with control strains such as *Bacteroides fragilis*, *Fusobacterium necrophorum,* and *Clostridium perfringens* should produce characteristic metabolic profiles when tested by gas chromatography. These media are formulated to support strong growth of anaerobes isolated from clinical and other biological specimens.

pH Measurement: Once sufficient bacterial growth is observed, the pH can be measured directly in the culture tube using a pH meter equipped with a long, thin combination electrode. After each reading, the electrode should be thoroughly rinsed with distilled water into a container containing disinfectant. The electrode must be disinfected before returning it to the storage solution.

Interpretation of pH Values: A pH value of 5.5 or less indicates strong acid production. A pH range between 5.5 and 6.0 reflects weak acid production. A pH above 6.0 is interpreted as no acid production.

Esculin Hydrolysis Detection (AS-833 PY ESCULIN): To test for esculin hydrolysis, add 2 to 3 drops of a 1% ferric ammonium citrate solution (Esculin Reagent, catalog #: AS-713) to an inoculated PY ESCULIN tube containing visible bacterial growth. Development of a black or dark brown color indicates esculin hydrolysis. This result can be confirmed using UV light at 366 nm. Intact esculin fluoresces blue-white, while hydrolyzed esculin shows no fluorescence.

Starch Hydrolysis Detection (AS-829 PY STARCH): Add 2 to 3 drops of a 1:5 dilution of Gram's Iodine to an inoculated PY STARCH tube with visible growth. A blue or black color indicates the presence of intact starch, meaning no hydrolysis has occurred. If there is no color change, starch has been hydrolyzed by the organism.

Gelatin Hydrolysis Detection (AS-860 PYG GELATIN): Incubate the inoculated tube and an uninoculated control tube at 37°C for 24 to 72 hours. Remove from incubation and place the tubes in a refrigerator (2 – 8°C). If the control

tube solidifies and the inoculated tube remains liquid, gelatin has been hydrolyzed. If both tubes solidify, no gelatin hydrolysis has occurred.

Growth in Bil Determination (AS-857 PYG BILE): Compare the turbidity of PYG BILE to that of a PYG control (AS-822) after incubation. An increase in turbidity suggests the organism is stimulated by bile, while reduced or no turbidity indicates inhibition by bile.

LIMITATIONS

Peptone Yeast Extract Broth Based Media 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
Bacteroides fragilis	25285	Growth
Prevotella melaninogenica	25845	Growth*
Phocaeicola vulgatus	8482	Growth
Fusobacterium nucleatum	25586	Growth*
Fusobacterium necrophorum	25286	Growth*
Clostridium perfringens	13124	Growth
Clostridium novyi (PY and PYG TWEEN only)	7659	Growth[t]
Peptostreptococcus anaerobius	27337	Growth*
Cutibacterium acnes (PY, PY ADONITOL, and PY GLYCEROL only)	6919	Growth[t]
Staphylococcus aureus (PY only)	25923	Growth[t]
Peptoniphilus asaccharolyticus (PY FRUCTOSE, PYG GELATIN, PYG BILE, PYG FF, and PYG TWEEN only)	29743	Growth*
Campylobacter ureolyticus (PYG FF only)	33387	Growth[t]
Veillonella parvula (PY LACTATE only)	10790	Growth[t]

*No growth in PYG BILE [t]Not tested for growth in bile

Biochemical Utilization: The following organisms are routinely used at Anaerobe Systems for biochemical utilization tests. Acid production is determined by measuring pH after incubation. A strong acid response is indicated by a pH of 5.5 or below, a weak acid response by a pH of 5.5 to 6.0, and a no acid production response by a pH of 6.0 or above.

Product Name	Organism Tested	ATCC® #	pH/hy/ other	Organism Tested	ATCC® #	pH/Hy /other
PY ADONITOL	Klebsiella pneumoniae	49472	+	Bacteroides fragilis	25285	-
PY AMYGDALIN	Bifidobacterium adolescentis	15703	+	Phocaeicola vulgatus	8482	-
				Fusobacterium necrophorum	25286	-
PY ARABINOSE	Phocaeicola vulgatus	8482	+	Bacteroides fragilis	25285	-
PY ARGININE	Eggerthella lenta	43055	Growth stimulated compared to AS-821 PY BROTH			
PYG BILE	Phocaeicola vulgatus	8482	Growth	Peptoniphilus asaccharolyticus	29743	NG
	Bacteroides fragilis	25285	Growth	Fusobacterium necrophorum	25286	NG
PY CELLOBIOSE	Bifidobacterium breve	15700	+	Peptostreptococcus anaerobius	27337	-
	Clostridium perfringens	13124	+	Fusobacterium necrophorum	25286	-
PY DULCITOL	Kluyvera intermedia	700722	+	Bacteroides fragilis	25285	-
PY ERYTHRITOL	Eubacterium limosum	10825	+	Phocaeicola vulgatus	8482	-

Product Name	Organism Tested	ATCC® #	pH/hy/ other	Organism Tested	ATCC® #	pH/Hy /other
PY ESCULIN	Bacteroides fragilis	25285	(NT/+)	Peptostreptococcus anaerobius	27337	(NT/-)
				Fusobacterium necrophorum	25286	(NT/-)
PY FRUCTOSE	Bacteroides fragilis	25285	+	Peptoniphilus asaccharolyticus	29743	-
	Phocaeicola vulgatus	8482	+	Porphyromonas levii	29147	-
PYG FF	Campylobacter ureolyticus	33387	Growth stimulated compared to AS-822 PYG BROTH			
PY GALACTOSE	Bacteroides fragilis	25285	+	Fusobacterium necrophorum	25286	-
	Phocaeicola vulgatus	8482	+			
PYG GELATIN	Clostridium perfringens	13124	(+/+)	Bifidobacterium longum	15707	(NT/-)
	Prevotella melaninogenica	25845	(NT/+)	Peptoniphilus asaccharolyticus	29743	(-/-)
PY GLYCEROL	Cutibacterium acnes	6919	+	Bacteroides fragilis	25285	-
PY GLYCOGEN	Phocaeicola vulgatus	8482	+	Fusobacterium necrophorum	25286	-
PY INOSITOL	Clostridium perfringens	13124	+	Peptostreptococcus anaerobius	27337	-
				Fusobacterium nucleatum	25586	-
PY INULIN	Bifidobacterium adolescentis	15703	+	Peptostreptococcus anaerobius	27337	-
PY LACTOSE	Clostridium perfringens	13124	+	Fusobacterium necrophorum	25286	-
	Bacteroides fragilis	25285	+	Fusobacterium nucleatum	25586	-
PY MALTOSE	Phocaeicola vulgatus	8482	+	Fusobacterium necrophorum	25286	-
	Bacteroides fragilis	25285	+	Fusobacterium nucleatum	25586	-
PY MANNITOL	Clostridium tertium	19405	+	Fusobacterium necrophorum	25286	-
				Clostridium perfringens	13124	-
PY MANNOSE	Clostridium perfringens	13124	+	Fusobacterium nucleatum	25586	-
	Phocaeicola vulgatus	8482	+	Fusobacterium necrophorum	25286	-
PY MELEZITOSE	Bifidobacterium longum	15707	+	Peptostreptococcus anaerobius	27337	-
	Phocaeicola vulgatus	8482	+	Fusobacterium necrophorum	25286	-
PY MELIBIOSE	Bifidobacterium longum	15707	+	Peptostreptococcus anaerobius	27337	-
PY RAFFINOSE	Phocaeicola vulgatus	8482	+	Fusobacterium necrophorum	25286	-
	Bacteroides fragilis	25285	+	Fusobacterium nucleatum	25586	-
PY RHAMNOSE	Bacteroides vulgatus	8482	+	Peptostreptococcus anaerobius	27337	-
PY RIBOSE	Bifidobacterium longum	15707	+	Bacteroides fragilis	25285	-
				Fusobacterium necrophorum	25286	-
PY SALICIN	Bifidobacterium adolescentis	15703	+	Peptostreptococcus anaerobius	27337	-
	Bacteroides ovatus	8483	+	Fusobacterium necrophorum	25286	-
PY SORBITOL	Bifidobacterium adolescentis	15703	+	Peptostreptococcus anaerobius	27337	-
PY STARCH	Clostridium perfringens	13124	(+/+)	Fusobacterium necrophorum	25286	(-/-)
	Bacteroides fragilis	25285	(+/+)	Peptostreptococcus anaerobius	27337	(-/-)
PY SUCROSE	Clostridium perfringens	13124	+	Peptostreptococcus anaerobius	27337	-
	Bacteroides fragilis	25285	+	Fusobacterium necrophorum	25286	-
PY TREHALOSE	Bacteroides ovatus	8483	+	Peptostreptococcus anaerobius	27337	-
				Fusobacterium necrophorum	25286	-
PYG TWEEN	Clostridium novyi	6919	Growth stimulated compared to AS-822 PYG BROTH			
PY XYLAN	Bacteroides ovatus	8483	+	Bacteroides fragilis	25285	-
PY XYLOSE	Bifidobacterium longum	25285	+	Fusobacterium nucleatum	25586	-
	Bacteroides fragilis	25285	+	Fusobacterium necrophorum	25286	-

NG = No growth NT = Not tested hy = Hydrolysis

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.

Product Name	Organism Tested	ATCC® #	pH/hy/ other	Organism Tested	ATCC® #	pH/Hy /other
PY	Bacteroides fragilis	25285	Growth			
	Fusobacterium necrophorum	25286	Growth			
PY ADONITOL	Klebsiella pneumoniae	49472	+	Bacteroides fragilis	25285	-
PY AMYGDALIN	Bifidobacterium adolescentis	15703	+	Phocaeicola vulgatus	8482	-
PY ARABINOSE	Phocaeicola vulgatus	8482	+	Bacteroides fragilis	25285	-
PY ARGININE	Eggerthella lenta	43055	Growth stimulated compared to AS-821 PY BROTH			
PYG BILE	Phocaeicola vulgatus	8482	Growth	Peptoniphilus asaccharolyticus	29743	NG
PY CELLOBIOSE	Bifidobacterium breve	15700	+	Peptostreptococcus anaerobius	27337	-
PY DULCITOL	Kluyvera intermedia	700722	+	Bacteroides fragilis	25285	-
PY ERYTHRITOL	Eubacterium limosum	10825	+	Phocaeicola vulgatus	8482	-
PY ESCULIN	Bacteroides fragilis	25285	(NT/+)	Peptostreptococcus anaerobius	27337	(NT/-)
PY FRUCTOSE	Bacteroides fragilis	25285	+	Peptoniphilus asaccharolyticus	29743	-
PYG FF	Campylobacter ureolyticus	33387	Growth stimulated compared to AS-822 PYG BROTH			
PY GALACTOSE	Bacteroides fragilis	25285	+	Fusobacterium necrophorum	25286	-
PYG GELATIN	Clostridium perfringens	13124	(+/+)	Bifidobacterium longum	15707	(NT/-)
PY GLYCEROL	Cutibacterium acnes	6919	+	Bacteroides fragilis	25285	-
PY GLYCOGEN	Phocaeicola vulgatus	8482	+	Fusobacterium necrophorum	25286	-
PY INOSITOL	Clostridium perfringens	13124	+	Peptostreptococcus anaerobius	27337	-
PY INULIN	Bifidobacterium adolescentis	15703	+	Peptostreptococcus anaerobius	27337	-
PY LACTOSE	Clostridium perfringens	13124	+	Fusobacterium necrophorum	25286	-
PY MALTOSE	Phocaeicola vulgatus	8482	+	Fusobacterium necrophorum	25286	-
PY MANNITOL	Clostridium tertium	19405	+	Fusobacterium necrophorum	25286	-
PY MANNOSE	Clostridium perfringens	13124	+	Fusobacterium nucleatum	25586	-
PY MELEZITOSE	Bifidobacterium longum	15707	+	Peptostreptococcus anaerobius	27337	-
PY MELIBIOSE	Bifidobacterium longum	15707	+	Peptostreptococcus anaerobius	27337	-
PY RAFFINOSE	Phocaeicola vulgatus	8482	+	Fusobacterium necrophorum	25286	-
PY RHAMNOSE	Bacteroides vulgatus	8482	+	Peptostreptococcus anaerobius	27337	-
PY RIBOSE	Bifidobacterium longum	15707	+	Bacteroides fragilis	25285	-
PY SALICIN	Bifidobacterium adolescentis	15703	+	Peptostreptococcus anaerobius	27337	-
PY SORBITOL	Bifidobacterium adolescentis	15703	+	Peptostreptococcus anaerobius	27337	-
PY STARCH	Clostridium perfringens	13124	(+/+)	Fusobacterium necrophorum	25286	(-/-)
PY SUCROSE	Clostridium perfringens	13124	+	Peptostreptococcus anaerobius	27337	-
PY TREHALOSE	Bacteroides ovatus	8483	+	Peptostreptococcus anaerobius	27337	-
PYG TWEEN	Clostridium novyi	6919	Growth stimulated compared to AS-822 PYG BROTH			
PY XYLAN	Bacteroides ovatus	8483	+	Bacteroides fragilis	25285	-
PY XYLOSE	Bifidobacterium longum	25285	+	Fusobacterium nucleatum	25586	-

NG = No growth NT = Not tested hy = Hydrolysis

Physical Appearance: Peptone Yeast Extract Broth Based Media typically appears as a clear, golden-yellow to golden-brown liquid. PY XYLAN is characteristically turbid. PYG GELATIN may appear semi-solid at cooler temperatures due to the presence of gelatin.

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. Holdeman LV, Cato FP, Moore WEC. *Anaerobe Laboratory Manual*. 4th ed. Virginia Polytechnic Institute and State University; 1987.
6. 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.
7. 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
8. 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#
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	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, labeling, 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
XX REP	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.
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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