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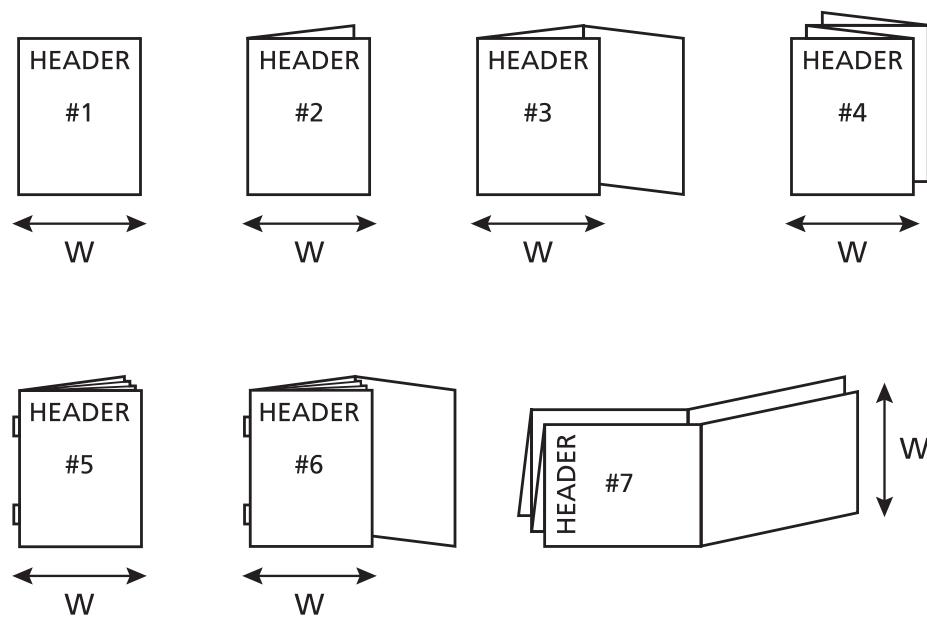
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## Chopped Meat Carbohydrate Broth, PR II

Rx Only

8815191JAA(02)  
2019-03

Contact your local BD representative for instructions. / Свържете се с местния представител на BD за инструкции. / Pokyny vám poskytne místní zástupce společnosti BD. / Kontakt den lokale BD repräsentant for at få instruktioner. / Die Packungsbeilage erhalten Sie bei Ihrer örtlichen BD-Vertretung. / Póngase en contacto con su representante local de BD para instrucciones. / Contacter le représentant local de BD pour les instructions. / Επικοινωνήστε με τον τοπικό αντιπρόσωπο της BD για οδηγίες. / Kasutusjuhiste suhtes kontakteeruge oma kohaliku BD esindajaga. / Ota yhteys lähiimäiseen BD:n edustajaan ohjeiden saamiseksi. / Kontaktiraj lokalnog predstavnika BD za upute. / A használati utasítást kérje a BD helyi képviseletétől. / Rivolgersi al rappresentante BD di zona per istruzioni. / Нұсқаулар үшін жергілікті BD екімін хабарласыңыз. / Naudojimo instrukciją teiraukitės vėtos BD įgaliotojo atstovo. / Neem contact op met uw plaatselijke BD-vertegenwoordiger voor instructies. / Kontakt din lokale BD-representant for mer informasjon. / Aby uzyskać instrukcje użytkowania, skontaktuj się z lokalnym przedstawicielem BD. / Contate o representante local da BD para instruções. / Pentru instrucțiuni, contactați reprezentantul local BD. / Для получения указаний обратитесь к местному представителю компании BD. / Instrukcie získate u miestného zástupcu spoločnosti BD. / Obratite se svom lokalnom predstavniku kompanije BD za uputstva. / Kontaktta närmaste BD-representant för anvisningar. / Talmatlar için yerel BD temsilcinizle temasla geçin. / За інструкціями зверніться до місцевого представника компанії BD.

## INTENDED USE

BD BBL™ Chopped Meat Carbohydrate Broth, PR II (pre-reduced medium in Hungate tubes) is a general-purpose medium for the enrichment and cultivation of anaerobic microorganisms, particularly obligate anaerobes.

## SUMMARY AND EXPLANATION

BD BBL Chopped Meat Carbohydrate Broth, PR II (pre-reduced) is a general enrichment broth medium that supports growth of most anaerobes, provides a backup source of culture material if an anaerobic jar or chamber fails and for enrichment of small numbers of organisms.<sup>1</sup> It may be used for subculture and enrichment of anaerobic isolates for chromatographic analysis and tests to determine proteolysis (meat digestion), spore formation, motility and toxin production, particularly by *Clostridium* species, and as a holding or stock culture maintenance medium.<sup>2</sup>

The use of BD BBL Chopped Meat Carbohydrate Broth, PR II is based on Hungate's methods of culturing anaerobic microorganisms outside of an anaerobic chamber.<sup>3</sup> The tubes provide a reduced medium in a self-contained, anaerobic culture tube sealed using a Hungate screw cap. The cap contains a butyl rubber septum stopper that permits inoculation and incubation without exposing the medium to air.

## PRINCIPLES OF THE PROCEDURE

Pre-reduced medium provides an anaerobic nitrogen and hydrogen atmosphere. The tubes are packaged under oxygen-free conditions and sealed to prevent aerobiosis.

Chopped meat pellets and enzymatic digest of casein provide amino acids and other nitrogenous substances to support bacterial growth. Yeast extract primarily provides the B-complex vitamins, glucose is a source of energy and the phosphate is incorporated to maintain the pH of the medium. Cellulose, maltose and starch provide additional energy sources. Hemin and vitamin K<sub>1</sub> are required by certain anaerobic species for growth and may improve the growth of other species.<sup>4</sup>

The reducing action of the meat particles and L-cysteine binds molecular oxygen. The reducing agents are required to maintain a low Eh. Resazurin is an oxidation-reduction indicator used to detect changes in the Eh of the medium. The medium remains colorless if the Eh remains low; increased oxidation causes the medium to become pink.

## REAGENTS

## BD BBL Chopped Meat Carbohydrate Broth, PR II

Approximate Formula\* Per Liter Purified Water

Chopped Meat Pellets .....	10.2 g
Pancreatic Digest of Casein .....	30.0 g
Yeast Extract .....	5.0 g
Glucose .....	4.0 g
Dipotassium Phosphate .....	5.0 g
Cellulose.....	1.0 g
Maltose .....	1.0 g
Starch .....	1.0 g
L-Cysteine HCl .....	0.5 g
Resazurin .....	0.001 g
Vitamin K <sub>1</sub> .....	1.0 mg
Hemin .....	5.0 mg

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

## Warnings and Precautions

For *in vitro* Diagnostic Use

This product contains dry natural rubber.

Tubes with tight caps should be opened carefully to avoid injury due to breakage of glass.

Observe aseptic techniques and established precautions against microbiological hazards throughout all procedures. After use, prepared tubes, specimen containers and other contaminated materials must be sterilized by autoclaving before discarding.

**Storage Instructions:** On receipt, store tubes in the dark at 2 to 25°C. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Tubed media stored as labeled until just prior to use may be inoculated up to the expiration date and incubated for recommended incubation times. Allow the medium to warm to room temperature before inoculation.

**Product Deterioration:** Do not use tubes if they show evidence of microbial contamination or other signs of deterioration.

Tubes should be discarded if greater than one-third of the medium becomes oxidized (pink).

## SPECIMEN COLLECTION AND HANDLING

This medium is not intended for use directly with specimens, except as a "back-up" enrichment broth in addition to primary plating media. Consult appropriate texts for information.<sup>1,5</sup>

## PROCEDURE

**Material Provided:** BD BBL Chopped Meat Carbohydrate Broth, PR II

**Materials Required But Not Provided:** Ancillary culture media, reagents, quality control organisms and laboratory equipment as required for this procedure.

**Test Procedure:** Observe aseptic techniques. Before inoculating, disinfect the septum of the cap. To inoculate, insert needle through the septum and inject the specimen into the medium. Withdraw the needle slowly to avoid introducing air into the tube.

Organisms for subculture into this medium should first be isolated in pure culture on an appropriate solid medium. Prepare a suspension of the pure culture in 0.5 to 1.0 mL of sterile, reduced broth and inoculate the tube with one or two drops.

For enrichment purposes, inoculate the pre-reduced medium with one or two drops of the specimen after inoculating appropriate primary plating media. Prepare tissues and other solid specimens by mincing and grinding the specimen in 0.5 to 1.0 mL of sterile, reduced broth and inoculate the tube with one or two drops.

Incubate the tubes at 35 ± 2°C for up to a week before discarding as negative. For suspected actinomycoses, osteomyelitis, endocarditis and other serious infections incubate the tubes for up to 2 weeks before discarding as negative.

