

BD Sabouraud Glucose Agar

Partially Prepared Media



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English

INTENDED USE

BD Sabouraud Glucose Agar, provided in bottles, is a partially prepared medium used for the isolation and cultivation of fungi (yeasts, molds, and dermatophytes) from pharmaceutical and clinical materials.

BD does not assume responsibility if the product is used for applications, microorganisms, or procedures not recommended in the Instructions for Use.

PRINCIPLES OF THE PROCEDURE

BD Sabouraud Glucose Agar was devised by Sabouraud for the cultivation of dermatophytes.^{1,2} Today it is used for the isolation and cultivation of all fungi, including those from clinical specimens.^{3,4} It meets EP and USP performance specifications.^{5,6} The medium is only slightly inhibitory to contaminating bacteria due to its low pH and the high glucose concentration.

In BD Sabouraud Glucose Agar, peptones are sources of nitrogenous growth factors. Glucose (=dextrose) provides a carbon and energy source for the growth of microorganisms. The high glucose concentration and the relatively low pH provide are advantageous for the growth of fungi while many bacteria do not tolerate the high sugar concentration and are partially inhibited by the low pH. However, without supplementation of antibacterial antimicrobials, the medium has only a weak selectivity.

BD Sabouraud Glucose Agar are partially prepared media supplied in bottles from which the user can prepare plated or tubed media. Antibacterial agents, such as gentamicin (0.04 g/L) and chloramphenicol (0.4 g/L), tetracycline (0.1 g/L), or benzylpenicillin (0.1 g/L), may be added before completion to increase selectivity.

REAGENTS

Approximate Formulas* Per Liter Purified Water

BD Sabouraud Glucose Agar	
Peptic Digest of Animal Tissue	5.0 g
Pancreatic Digest of Casein	5.0 g
Glucose (Dextrose)	40.0 g
Agar	19.0 g

pH 5.6 ± 0.2

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

WARNINGS AND PRECAUTIONS

For laboratory use only.

Do not use bottles if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. For completion of this partially prepared medium, follow the methods and observe the warnings described under

PROCEDURE—Reagent Preparation.

Biological and Chemical Safety of the Product

This section may also contain information on specific biological and/or chemical hazards, indicated by the appropriate symbols, together with the appropriate R (risk)- and S (safety)-phrases.¹¹

Biohazard Originating from Specimens and Microorganisms Cultivated on Microbiological Media

Observe established precautions against microbiological hazards. Specimens and cultures of microorganisms must be handled according to local biohazard guidelines and legislation. According to the European Directive 2000/54/EC, most bacterial and fungal pathogens are included in risk group 2. Risk group 3 has been created to include *Salmonella* Typhi, enterohemorrhagic *Escherichia coli* (EHEC; also referred to as STEC = Shiga toxin-producing *E. coli*), *Shigella dysenteriae* (type 1) and several other bacteria and fungi. Other bacterial and fungal pathogens included in risk group 3 are: all *Brucella* spp.; *Mycobacterium tuberculosis*; *M. bovis*; *M. africanum*; *M. ulcerans*; and *Histoplasma capsulatum*. For details, consult Annex III of Directive 2000/54/EC.¹²

Product Disposal

After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be autoclaved for 20 to 30 min at 121 °C or higher (if large volumes of disposed materials must be sterilized), or incinerated by validated procedures.

STORAGE

On receipt, store bottles in the dark at 5–25 °C. Avoid freezing and overheating. The medium may be used up to the expiration date and incubated for the recommended incubation times. Bottles from opened packages can be used up to the expiration date. Opened bottles must be used immediately. To prepare plates or tubes from the bottled medium, it must first be liquefied. Do not liquefy any leftovers for a second time.

USER QUALITY CONTROL

Plates prepared from the semi-finished medium are inoculated with 10 to 100 cfu per plate of the *C. albicans* and *A. niger* strains. For *S. cerevisiae* and *T. mentagrophytes*, use a tenfold dilution of a suspension adjusted to MacFarland 0.5 standard and inoculate 10 µL (approximately 10³ cfu) per plate. Incubate plates as indicated in the footnote of the table.

Species	Strains	Growth Results
* <i>Candida albicans</i>	ATCC® 10231	Growth good to excellent
* <i>Saccharomyces cerevisiae</i>	NCPF 1211 or DSM 1333	Growth good to excellent
** <i>Aspergillus brasiliensis</i>	ATCC 16404	Growth good to excellent
*** <i>Trichophyton mentagrophytes</i>	ATCC 9533	Growth good to excellent
Uninoculated		Amber; bottled medium may be opaque

Incubation: *48 hours / **≤5 days / ***<5 days, 25–30 °C, aerobically

Always use fresh test strain suspensions, prepared from overnight cultures in appropriate liquid media (e.g., Tryptic or BD Trypticase™ Soy Broth for aerobes, and Schaedler Broth with hemin and vitamin K for anaerobes). Alternatively, fresh suspensions prepared from overnight cultures on plated media can be used. Incubation times of precultures must be extended if the test strain grows slowly. For **testing the nutritive capacity of a plated medium** according to the CLSI standard M22, dilute the inoculum suspension to provide 1 to 2 x 10⁴ cfu per plate.¹³ A tenfold lighter inoculum should be used if this does not provide isolated colonies. According to DIN EN 12322, the growth-promoting properties are tested with 100 to 1,000 cfu or a sufficient amount of cfu to provide isolated colonies by an appropriate streaking plate technique.¹⁴ If the strains are inoculated by a quantitative plating technique, 50 to 500 cfu per plate are usually appropriate to obtain a countable number of colonies. For **testing the inhibitory capacity of a selective plated medium**, according to CLSI M22, 1 to 2 x 10⁵ cfu per plate must be used for inoculation, and about 10⁴ or more cfu according to DIN EN 12322.^{13,14} Very high inocula of unwanted strains may “overload” the medium, leading to “breakthrough” growth. For comparison, always include a growth reference medium which should be a nonselective medium that provides optimal growth of all test strains. For aerobic strains, Columbia Agar with 5% Sheep Blood, for fastidious strains (like *Neisseria gonorrhoeae*) Chocolate Agar, for anaerobes Schaedler Agar with Vitamin K and 5% Sheep Blood, and for fungi Sabouraud Glucose Agar are suitable for this purpose. If tested quantitatively, growth of “desired” strains on the test medium should be at least 70% of that on the reference medium. On selective media, growth of “undesired” strains must be partially to completely inhibited. The degree of inhibition depends on the medium and the strains, but growth is usually reduced by a factor of 10³ to 10⁴ (or more) as compared to the growth on the nonselective growth reference medium. For **testing the growth performance of media in vials**, comparable methods are used. Smaller tubes and vials should be inoculated with 10⁵ cfu according to the CLSI M22-A2 standard.¹³ Vials or bottles with fill volumes above 10 mL should first be aliquoted in 5 or 10 mL amounts in sterile tubes and tested in the same way.

PROCEDURE

Materials Provided

BD Sabouraud Glucose Agar partially prepared media. See **AVAILABILITY** for fill volumes and package sizes.

Materials Not Provided

Autoclave (set at 100 ± 2 °C), steam cooker, or hot plate; water bath (48–50 °C); sterile glassware and sterile plastic Petri dishes or tubes. Ancillary reagents, inoculating loops, spreaders, pipettors, incubators, and laboratory equipment as required.

Reagent Preparation

Liquefy BD Sabouraud Glucose Agar (Bottled Media) by heating in an autoclave or steam cooker. Alternatively, the bottle may be placed into a suitable vessel containing water, which is placed on a hot plate and brought to boiling. **Slightly loosen the cap before heating to allow pressure exchange.**

Warning: It is not recommended to use microwave ovens for liquefaction of the medium. Do not place media bottles with metal closures into a microwave oven.

When using an autoclave, set the temperature to not more than 100 ± 2 °C as excessive heating may deteriorate the ingredients, possibly leading to unsatisfactory microbiological performance. When using a hot plate and/or a water bath, boil sufficiently long to dissolve the whole medium. The time needed for complete liquefaction of the medium may vary considerably and depends on the actual temperature of the heating device before use, its wattage, size, and the volume and temperature of the medium in the container. It is recommended to test and record the time needed for liquefaction after the first use.

After complete liquefaction, remove the container from the heating device and place into a water bath set at 48–50 °C.

Warning: Wear heat-protective gloves. Do not place the hot container into an ice bath or in cold water to accelerate cooling as this might cause cracks in the glass. Risk of severe scald.

Leave the container in the water bath sufficiently long to allow cooling of the complete medium to the set temperature.

If heat-sensitive supplements are added for the preparation of a plated medium, the temperature of the medium must not be higher than 50 °C. Antimicrobial agents such as gentamicin (0.04 g/L) and chloramphenicol (0.4 g/L), tetracycline (0.1 g/L), or benzylpenicillin (0.1 g/L) can be added to increase the selectivity. Completely dissolve the antimicrobials in a small volume (10 to 15 mL) of water, filter sterilize the solution, and add to the medium. Apply aseptic conditions during addition of the supplement and during pouring of the plates. Use sterile dishes and tubes. Mix the medium gently after addition of the supplement, but avoid formation of foam and bubbles. Pour the medium into the dishes if surface inoculation is desired. For a normal 90 to 100 mm dish, 19 to 21 mL is an appropriate volume. Allow the completed medium to solidify, invert the plates and allow to dry at room temperature for an adequate time (for complete solidification, store overnight at 18–23 °C). Wrap in fresh plastic bags and store at 2–8 °C. Prepared plates of this medium may be used for 5 to 7 days.

If the pour plate method shall be applied, add the material to be tested or its dilution into the empty dish, overlay with the medium, rotate the dish gently to mix, and allow to solidify completely.

For the preparation of slants in tubes, add the appropriate amount of liquefied medium (without antibacterial supplements), cooled to 48–50 °C, to the tubes and allow to solidify in the desired slanted position. Tubes, when closed tightly with screw caps, can be used for 2 to 3 weeks when stored in the dark at room temperature or at 2–8 °C. Before use, the medium surfaces must not be excessively wet.

Liquefy the bottled medium only once. Do not allow any leftovers to solidify and liquefy thereafter for a second time as repeated heating will damage the ingredients of the medium, leading to unsatisfactory microbiological performance.

Test Procedure

Consult the appropriate references for types and processing of specimens.²⁻¹⁰ Agar surfaces should be smooth and moist, but without excessive moisture which could cause confluent growth.

Streak the specimen as soon as possible after it is received in the laboratory. The streak plate is used primarily to isolate pure cultures from specimens containing mixed flora. Alternatively, if material is being cultured directly from a swab, roll the swab over a small area of the surface at the edge; then streak from this inoculated area. Incubate the plates or tubes under the conditions chosen. Consult appropriate references for further information on processing and incubation of specimens.²⁻⁸

If used for the detection of yeasts (e.g., *Candida* species) in clinical specimens, incubate for 48 hours at 30–35 °C. If filamentous fungi, including dermatophytes are suspected, incubate for one week at 25–30 °C or longer. Dermatophytes occasionally need 3 weeks or longer to produce growth. If used for hygiene monitoring, incubate for up to 7 days at 20–25 °C. For the isolation of dermatophytes, BD Dermatophyte Agar should also be used. If incubated longer than 3 days, provide adequate moisture. Plates may be sealed with adhesive plastic tape to avoid desiccation. For details on growth temperature and incubation, consult the references.²⁻⁸

The slanted medium in tubes is used for the cultivation and maintenance of fungal cultures. Streak the strain directly or after suspension in sterile water or saline onto the whole slanted surface. Incubate as appropriate for the isolate. During incubation, caps should be slightly loosened to allow aeration. After incubation and during storage, close completely.

Results

After incubation, plates may show an area of confluent growth. Because the streaking procedure is, in effect, a “dilution” technique, diminishing numbers of microorganisms are deposited on the streaked areas. Consequently, one or more of these areas should exhibit isolated colonies of the organisms contained in the specimen. In addition, growth of each organism may be semi-quantitatively scored on the basis of growth in each of the streaked areas.

If inoculated with an appropriate inoculum, slants will show growth on the whole surface. Inoculated tubes may be stored refrigerated for several months without loss of viability of the culture. The survival time depends on the individual strains.

The number and types of fungi growing on the completed media prepared from BD Sabouraud Glucose Agar (Bottled Media) is very large. Therefore, no specific details on their appearance can be given here. Consult the references.^{2,4,8-10}

From the isolates obtained on the plated medium, appropriate subcultures should be set up to allow a further differentiation and identification of the fungi isolated.

PERFORMANCE CHARACTERISTICS AND LIMITATIONS OF THE PROCEDURE

After preparation of plates, BD Sabouraud Glucose Agar (Bottled Media) is used in a variety of nonclinical procedures.^{5,6,9} In clinical microbiology, the plated medium can be used for the isolation of fungi from all types of clinical specimens.^{2-4,8-10}

The slanted medium in tubes is used for maintenance and growth of pure fungal cultures only. The unsupplemented medium is only weakly selective; therefore, bacteria may grow, especially after extended incubation. If bacterial contamination of the specimens, materials, or areas under investigation is suspected, the medium should be supplemented before use with antibacterial antimicrobials, e.g., gentamicin and chloramphenicol, tetracycline, benzylpenicillin, or others as appropriate (see **Reagent Preparation**).

Due to the wide growth temperature range of fungi occurring as infectious agents, it may be necessary to inoculate several plates of the same medium and incubate them at different temperatures. Consult the **Test Procedure** section and appropriate references.^{2,4,8,10}

AVAILABILITY

Cat. No.	Description
257104	BD Sabouraud Glucose Agar, cpu 12, 250 mL fill volume; in 300 mL flat bottle
257153	BD Sabouraud Glucose Agar, cpu 25, 100 mL fill volume; in 150 mL sirup bottle
257261	BD Sabouraud Glucose Agar, cpu 4, 400 mL fill volume; in 500 mL laboratory bottle

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Change History

Revision	Date	Change Summary
01	2020-07	Document number changed, version reset to revision 01 for BD branding updates. Updated access information to obtain the document from bd.com/e-labeling .

Some symbols listed below may not apply to this product.



Manufacturer / Производител / Výrobce / Fabrikant / Hersteller / Κατασκευαστής / Fabricante / Tootja / Fabricant / Proizvođač / Gyártó / Fabbicante / Атқарушы / 제조업체 / Gamintojas / Ražotājs / Tilvirker / Producent / Producător / Производителъ / Výrobca / Proizvođač / Tillverkare / Üretici / Виробник / 生产厂商



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YYYY-MM-DD / YYYY-MM (MM = end of month)
TTTT-MM-DD / TTTT-MM (MM = края на месеца)
RRRR-MM-DD / RRRR-MM (MM = konec měsíce)
AAAA-MM-DD / AAAA-MM (MM = slutning af måned)
JJJJ-MM-TT / JJJJ-MM (MM = Monatsende)
EEEE-MM-HH / EEEE-MM (MM = τέλος του μήνα)
AAAA-MM-DD / AAAA-MM (MM = fin del mes)
AAAA-KK-PP / AAAA-KK (KK = kuu lõpp)
AAAA-MM-JJ / AAAA-MM (MM = fin du mois)
GGGG-MM-DD / GGGG-MM (MM = kraj mjeseca)
ÉÉÉÉ-HH-NN / ÉÉÉÉ-HH (HH = hónap utolsó napja)
AAAA-MM-GG / AAAA-MM (MM = fine mese)
ЖОЖОЖ-АА-КК / ЖОЖОЖ-АА / (АА = айдың соңы)
YYYY-MM-DD/YYYY-MM (MM = 월말)
MMMM-MM-DD / MMMM-MM (MM = mēnesio pabaiga)
GGGG-MM-DD/GGGG-MM (MM = mēneša beigas)
JJJJ-MM-DD / JJJJ-MM (MM = einde maand)
AAAA-MM-DD / AAAA-MM (MM = slutten av måneden)
RRRR-MM-DD / RRRR-MM (MM = koniec miesiąca)
AAAA-MM-DD / AAAA-MM (MM = fim do mês)
AAAA-LL-ZZ / AAAA-LL (LL = sfârșitul lunii)
TTTT-MM-DD / TTTT-MM (MM = конец месяца)
RRRR-MM-DD / RRRR-MM (MM = koniec mesiacu)
GGGG-MM-DD / GGGG-MM (MM = kraj meseca)
AAAA-MM-DD / AAAA-MM (MM = slutet av månaden)
YYYY-AA-GG / YYYY-AA (AA = ayın sonu)
PPPP-MM-DD / PPPP-MM (MM = кінець місяця)
YYYY-MM-DD / YYYY-MM (MM = 月末)

REF

Catalog number / Каталоген номер / Katalogové číslo / Katalognummer / Αριθμός καταλόγου / Número de catálogo / Katalooginumber / Numéro catalogue / Kataloški broj / Katalógusszám / Numero di catalogo / Каталог нөмірі / 카탈로그 번호 / Katalogo / numeris / Kataloga numurs / Catalogus nummer / Numer katalogowy / Număr de catalog / Номер по каталогу / Katalogové číslo / Kataloški broj / Katalog numarası / Номер за каталогом / 目录号

EC REP

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IVD

In Vitro Diagnostic Medical Device / Медицински уред за диагностика ин витро / Lékařské zařízení určené pro diagnostiku in vitro / In vitro diagnostisk medicinsk anordning / Medizinisches In-vitro-Diagnostikum / In vitro διαγνωστική ιατρική συσκευή / Dispositivo médico para diagnóstico in vitro / In vitro diagnostika meditsiiniaparatuur / Dispositif médical de diagnostic in vitro / Medicinska pomagala za In Vitro Dijagnostiku / In vitro diagnosztikai orvosi eszköz / Dispositivo medicale per diagnostica in vitro / Жасанды жағдайда жүргізетін медициналық диагностика аспабы / In Vitro Diagnostic 의료 기기 / In vitro diagnostikos prietaisai / Medicinas ierices, ko lieto in vitro diagnostikā / Medisch hulpmiddel voor in-vitro diagnostiek / In vitro diagnostisk medisinsk utstyr / Urządzenie medyczne do diagnostyki in vitro / Dispositivo médico para diagnóstico in vitro / Dispozitiv medical pentru diagnostic in vitro / Медицинский прибор для диагностики in vitro / Medicinska pomôcka na diagnostiku in vitro / Medicinski uređaj za in vitro dijagnostiku / Medicinteknisk produkt för in vitro-diagnostik / In Vitro Diyagnostik Tibbi Cihaz / Медицинский прибор для диагностики in vitro / 体外诊断医疗设备



Temperature limitation / Температурни ограничения / Temperaturbegrænsning / Temperaturbegrenzung / Περιορισμός θερμοκρασίας / Limitación de temperatura / Temperatuuri piirang / Limites de température / Dozvoljena temperatura / Hőmérsékleti határ / Limiti di temperatura / Температураны шектеу / 온도 제한 / Laikymo temperatūra / Temperatūras ierobežojumi / Temperaturlimit / Temperaturbegrensning / Ograniczenie temperatury / Limites de temperatura / Limite de temperatură / Ограничение температуры / Ograničenje temperature / Temperaturgräns / Sıcaklık sınırlaması / Обмеження температури / 温度限制

LOT

Batch Code (Lot) / Код на партидата / Kód (číslo) šarže / Batch-kode (lot) / Batch-Code (Charge) / Κωδικός παρτίδας (παρτίδα) / Código de lote (lote) / Partii kood / Numéro de lot / Lot (kod) / Tétel száma (Lot) / Codice batch (lotto) / Топтама коды / 배치 코드 (로트) / Partijos numeris (LOT) / Partijas kods (laidiens) / Lot nummer / Batch-kode (parti) / Kod partii (seria) / Código do lote / Cod de serie (Lot) / Код партии (лот) / Kód série (šarža) / Kod serije / Partinummer (Lot) / Parti Kodu (Lot) / Код партії / 批号 (亚批)



Contains sufficient for <n> tests / Съдържа много е достатъчно за <n> теста / Dostatečné množství pro <n> testů / Indeholder tilstrækkeligt til <n> tests / Ausreichend für <n> Tests / Περιέχει επαρκή ποσότητα για <n> εξετάσεις / Contenido suficiente para <n> pruebas / Küllaldane <n> testide jaoks / Contenu suffisant pour <n> tests / Sadržaj za <n> testova / <n> teszthez elegendő / Contenuto sufficiente per <n> test / <n> тесттері үшін жеткілікті / <n> 테스트가 충분히 포함됨 / Pakankamas kiekis atlikti <n> testų / Satur pietiekami <n> pārbaudēm / Inhoud voldoende voor "n" testen / Innholder tilstrekkelig til <n> tester / Zawiera ilość wystarczającą do <n> testów / Conteúdo suficiente para <n> testes / Conținut suficient pentru <n> teste / Достаточно для <n> тестов(а) / Obsah vystačí na <n> testov / Sadržaj dovoljan za <n> testova / Innehåller tillräckligt för <n> analyser / <n> test için yeterli malzeme içerir / Вистачить для аналізів: <n> / 足够进行 <n> 次检测



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	Lower limit of temperature / Долен лимит на температурата / Dolní hranice teploty / Nedre temperaturgrænse / Temperaturuntergrenze / Κατώτερο όριο θερμοκρασίας / Limite inferior de temperatura / Alumine temperatuuriipiir / Limite inférieure de température / Najniža dozvoljena temperatura / Alsó hőmérsékleti határ / Limite inferiore di temperatura / Температураның төменгі руқсат шегі / 하한 온도 / Žemiausia laikymo temperatūra / Temperatūras zemākā robeža / Laagste temperatuurlimiet / Nedre temperaturgrense / Dolna granica temperatury / Limite mínimo de temperatura / Limită minimă de temperatură / Нижний предел температуры / Spodná hranica teploty / Donja granica temperature / Nedre temperaturgräns / Sıcaklık alt sınırı / Мінімальна температура / 温度下限 Control / Контрольно / Kontrola / Kontrol / Kontrolle / Μάρτυρας / Kontroll / Contrôle / Controllo / Бақылау / 컨트롤 / Kontrolé / Kontrole / Controle / Controllo / Контроль / kontrol / Контроль / 对照
	Positive control / Положителен контрол / Pozitivní kontrola / Positiv kontrol / Positive Kontrolle / Θετικός μάρτυρας / Control positivo / Positiivne kontroll / Contrôle positif / Pozitivna kontrola / Pozitív kontroll / Controllo positivo / Оң бақылау / 양성 컨트롤 / Teigama kontrolė / Pozitīvā kontrole / Positieve controle / Kontrola dodatnia / Controllo positivo / Control pozitiv / Положительный контроль / Pozitif kontrol / Позитивный контроль / 阳性对照试剂
	Negative control / Отрицателен контрол / Negativní kontrola / Negativ kontrol / Negative Kontrolle / Αρνητικός μάρτυρας / Control negativo / Negatiivne kontroll / Contrôle négatif / Negatívna kontrola / Negatív kontroll / Controllo negativo / Негативтік бақылау / 음성 컨트롤 / Neigama kontrolė / Negatīvā kontrole / Negatieve controle / Kontrola ujemna / Controllo negativo / Control negativ / Отрицательный контроль / Negatif kontrol / Негативный контроль / 阴性对照试剂
	Method of sterilization: ethylene oxide / Метод на стерилизация: этиленов оксид / Způsob sterilizace: ethylenoxid / Steriliseringmetode: ethylenoxid / Sterilisationsmethode: Ethylenoxid / Μέθοδος αποστείρωσης: αιθυλενοξείδιο / Método de esterilización: óxido de etileno / Steriliseerimismetod: etüleenoksiid / Méthode de stérilisation : oxyde d'éthylène / Metoda sterilizacije: etilen oksid / Sterilizálás módszere: etilén-oxid / Metodo di sterilizzazione: ossido di etilene / Стерилизация адісі – этилен тотығы / 소독 방법: 에틸렌옥사이드 / Sterilizavimo būdas: etileno oksidas / Sterilizēšanas metode: etilēnoksīds / Gesteriliseerd met behulp van ethyleenoxide / Steriliseringmetode: etylenoksid / Metoda sterylizacji: tlenek etylu / Método de esterilização: óxido de etileno / Metodă de sterilizare: oxid de etilenă / Metod sterilizaciji: этиленоксид / Metóda sterilizácie: etylénoxid / Metoda sterilizacije: etilen oksid / Steriliseringsmetod: etenoxid / Sterilizasyon yöntemi: etilen oksit / Metod sterilizacji: этиленоксидом / 灭菌方法: 环氧乙烷
	Method of sterilization: irradiation / Метод на стерилизация: ирадиация / Způsob sterilizace: záření / Steriliseringmetode: bestråling / Sterilisationsmethode: Bestrahlung / Μέθοδος αποστείρωσης: ακτινοβολία / Método de esterilización: irradiación / Steriliseerimismetod: kiirgus / Méthode de stérilisation : irradiation / Metoda sterilizacije: zračenje / Sterilizálás módszere: besugárzás / Metodo di sterilizzazione: irradiazione / Стерилизация адісі – сәуле тықы / 소독 방법: 방사 / Sterilizavimo būdas: radiacija / Sterilizēšanas metode: apstarošana / Gesteriliseerd met behulp van bestraling / Steriliseringmetode: bestråling / Metoda sterylizacji: napromienianie / Método de esterilização: irradiação / Metodă de sterilizare: iradiere / Metoda sterilizacije: облучение / Metóda sterilizácie: ožarovanie / Metoda sterilizacije: ozračavanje / Steriliseringsmetod: strålning / Sterilizasyon yöntemi: iradyasyon / Metod sterilizacji: opromienianie / 灭菌方法: 辐射 Biological Risks / Биологични рискове / Biologická rizika / Biologisk fare / Biogefährdung / Βιολογικοί κίνδυνοι / Riesgos biológicos / Biologilised riskid / Risques biologiques / Biološki rizik / Biológiaiilag veszélyes / Rischio biologico / Биологичлык төүекелдер / 생물학적 위험 / Biologinis pavojus / Biologiskie riski / Biologisch risico / Biologisk risiko / Zagrożenia biologiczne / Perigo biológico / Riscuri biologice / Биологическая опасность / Biologické riziko / Biološki rizici / Biologisk risk / Biolojisk Riskler / Біологічна небезпека / 生物学风险 Caution, consult accompanying documents / Внимание, направте справка на придружаващите документи / Pozor! Prostudujte si příloženou dokumentaci! / Forsigtig, se ledsagende dokumenter / Achtung, Begleitdokumente beachten / Προσοχή, συμβουλευτείτε τα συνοδευτικά έγγραφα / Precaución, consultar la documentación adjunta / Ettevaatus! Lugeka kaasnevat dokumentatsiooni / Attention, consulter les documents joints / Urozorenje, koristi prateću dokumentaciju / Figyelem! Olvassa el a mellékelt tájékoztatót / Attenzione: consultare la documentazione allegata / Абайлаңыз, тиісті құжаттармен танысыңыз / 주의, 동봉된 설명서 참조 / Dmesio, žiūrėkite priedamą dokumentus / Piesardzība, skatīt pavaddokumentus / Voorzichtig, gaadpleeg bijgevoegde documenten / Forsiktig, se vedlagt dokumentasjon / Należy zapoznać się z dołączonymi dokumentami / Cuidado, consulte a documentação fornecida / Atenție, consultați documentele însoțitoare / Внимание: см. прилагаемую документацию / Výstraha, pozří spříevodné dokumenty / Pažňaj! Pogledajte priložena dokumenta / Obs! Se medföljande dokumentation / Dikkat, bilirlike verilen belgelere başvurun / Увага: див. супутню документацію / 小心, 请参阅附带文档。
	Upper limit of temperature / Горен лимит на температурата / Horní hranice teploty / Øvre temperaturgrænse / Temperaturobergrenze / Ανώτερο όριο θερμοκρασίας / Limite superior de temperatura / Ülemine temperatuuriipiir / Limite supérieure de température / Gornja dozvoljena temperatura / Felső hőmérsékleti határ / Limite superiore di temperatura / Температураның руқсат етілген жоғарғы шегі / 상한 온도 / Aukščiausia laikymo temperatūra / Augšējā temperatūras robeža / Hoogste temperatuurlimiet / Øvre temperaturgrense / Górná granica temperatury / Limite máximo de temperatura / Limită maximă de temperatură / Верхний предел температуры / Horná hranica teploty / Gornja granica temperature / Øvre temperaturgräns / Sıcaklık üst sınırı / Максимальна температура / 温度上限
	Keep dry / Пазете сухо / Skladujte v suchém prostředí / Opbevarer tørt / Tørkløkken / Φυλάξτε το στεγνό / Mantener seco / Hoida kuivas / Conserver au sec / Držati na suhom / Száraz helyen tartandó / Tenere all'asciutto / Құрғақ күйінде ұста / 건조 상태 유지 / Laikykite sausai / Uzglabāt sausu / Droog houden / Hoides tørt / Przechowywać w stanie suchym / Manter seco / A se feri de umezeală / Не допускать попадания влаги / Uchovávejte v suchu / Držite na suvom mestu / Förvaras tørt / Kuru bir şekilde muhafaza edin / Беретти від вологи / 请保持干燥
	Collection time / Време на събиране / Čas odběru / Opsamlingsdidspunkt / Entnahmehzeit / Ωρα συλλογής / Hora de recogida / Kogumisaeg / Heure de prélèvement / Sati prikupljanja / Mintavétel időpontja / Ora di raccolta / Жынау уақыты / 수집 시간 / Paėmimo laikas / Savākšanas laiks / Verzameltijd / Tid prøvetaking / Godzina pobrania / Hora de colheita / Ora colectării / Время сбора / Doba odboru / Vreme prikupljanja / Uppsamlingsdtd / Toplama zamanı / Нас забору / 采集时间
	Peel / Оберте / Otevěte zde / Abn / Abziehen / Αποκολλήστε / Desprendre / Koord / Décoller / Otvoriti skini / Húzza le / Staccare / Ўстіңкі қабатын алып таста / 벗기기 / Plešti čia / Atīmēt / Schillen / Trekk av / Oderwać / Destacar / Se dezlipeste / Отклеить / Odrhňte / Oljušiti / Dra isår / Ayırma / Відклеїти / 撕下
	Perforation / Перфорация / Perforace / Perforering / Διότρηση / Perforación / Perforatsioon / Perforacija / Perforálás / Perforazione / Tecik тесу / 절취선 / Perforacija / Perforância / Perforatie / Perforacja / Perfuração / Perforare / Перфорация / Perforacia / Perforasyon / Перфорация / 穿孔
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	Keep away from heat / Пазете от топлина / Nevstavujte přitříněmu teplu / Má ikke udsættes for varme / Vor Wärme schützen / Κρατήστε το μακριά από τη θερμότητα / Mantener alejado de fuentes de calor / Hoida eemal valgest / Protéger de la chaleur / Držati dalje od izvora topline / Óvja a melegdtől / Tenere lontano dal calore / Сапқын жерде сақтау / 열을 피해야 함 / Laikykite atokiau nuo šilumos šaltinių / Sargát no karstuma / Beschermen tegen warmte / Má ikke utsettes for varme / Przechowywać z dala od źródeł ciepła / Manter ao abrigo do calor / A se feri de căldură / Не нагревать / Uchovávejte mimo zdroja tepla / Držite dalje od toplote / Får ej utsättas för värme / Isidan uzak tutun / Беретти від дії тепла / 请远离热源
	Cut / Срежете / Odstřihněte / Klip / Schneiden / Κόψτε / Cortar / Lõigata / Découper / Reži / Vágja ki / Tagliare / Keciňiz / 잘라내기 / Kirpti / Nogriez / Knippen / Kutt / Odciać / Cortar / Decupați / Отрезать / Odstřihněte / Iseći / Klippi / Kesme / Pozpřizati / 剪下
	Collection date / Дата на събиране / Datum odběru / Opsamlingsdato / Entnahmedatum / Ημερομηνία συλλογής / Fecha de recogida / Kogumiskuupäev / Date de prélèvement / Dani prikupljanja / Mintavétel dátuma / Data di raccolta / Жынаған күні / 수집 날짜 / Paėmimo data / Savākšanas datums / Verzameldatum / Dato prøvetaking / Data pobrania / Data de colheita / Data colectării / Дата сбора / Datum odboru / Datum prikupljanja / Uppsamlingsdatum / Toplama tarihi / Дата забору / 采集日期



μL/test / μL/тест / μL/Test / μL/εξέταση / μL/prueba / μL/teszt / μL/테스트 / мкл/тест / μL/tyrimas / μL/pärbaude / μL/teste / мкн/анализ / μL/检测



Keep away from light / Пазете от светлина / Nevystavujte světlu / Må ikke udsættes for lys / Vor Licht schützen / Κρατήστε το μακριά από το φως / Mantener alejado de la luz / Hoida eemal valgusest / Conserver à l'abri de la lumière / Držati dalje od svjetla / Fény nem érheti / Tenere al riparo dalla luce / Қараңғыланған жерде ұста / 빛을 피해야 함 / Laikyti atokiau nuo šilumos šaltinių / Sargāt no gaismas / Niet blootstellen aan zonlicht / Må ikke utsettes for lys / Przechowywać z dala od źródła światła / Manter ao abrigo da luz / Feriti de lumină / Хранить в темноте / Uchovávať mimo dosahu svetla / Držite dalje od svetlosti / Får ej utsättas för ljus / Işıktan uzak tutun / Берегти від дії світла / 请远离光线



Hydrogen gas generated / Образуван е водород газ / Možnost úniku plyného vodíku / Frembringer hydrogengas / Wasserstoffgas erzeugt / Δημιουργία αερίου υδρογόνου / Producción de gas de hidrógeno / Vesinikgaasi tekitatud / Produit de l'hydrogène gazeux / Sadržaji hydrogen vodik / Hidrogén gázt fejleszt / Produzione di gas idrogeno / Газтөктес сутегі пайда болды / 수소 가스 생성됨 / Išskiria vandenilio dujas / Rodas ūdeņradis / Waterstofgas gegenereerd / Hydrogengass generert / Powoduje powstawanie wodoru / Produção de gás de hidrogénio / Generare gaz de hidrogen / Выделение водорода / Vyrobene použitím vodíka / Oslobada se vodonik / Genererad vätegas / Açığa çıkan hidrojen gazı / Реакція з виділенням водню / 会产生氢气



Patient ID number / ИД номер на пациента / ID pacienta / Patientens ID-nummer / Patienten-ID / Αριθμός αναγνώρισης ασθενούς / Número de ID del paciente / Patsienti ID / No d'identification du patient / Identifikacijski broj pacijenta / Beteg azonosító száma / Numero ID paziente / Пациенттің идентификациялық нөмірі / 환자 ID 번호 / Paciento identifikavimo numeris / Pacienta ID numurs / Identificatienummer van de patiënt / Pasientens ID-nummer / Numer ID pacienta / Número da ID do doente / Număr ID pacient / Идентификационный номер пациента / Identifikačné číslo pacienta / ID broj pacijenta / Patientnummer / Hasta kimlik numarası / Идентифікатор пацієнта / 患者标识号

Fragile, Handle with Care / Чупливо, Роботете с необходимото внимание. / Křehké. Při manipulaci postupujte opatrně. / Forsigtig, kan gå i stykker. / Zerbrechlich, vorsichtighandhaben. / Ευθραusto. Χειριστείτε το με προσοχή. / Frágil. Manipular con cuidado. / Örn, käsitsege ettevaatlikult. / Fragile. Manipuler avec précaution. / Lomljivo, rukujte pažljivo. / Törékeny! Óvatosan kezelendő. / Fragile, maneggiare con cura. / Сынғыш, абайлап пайдаланыңыз. / 조심 깨지기 쉬운 처리 / Trapu, elkitės atsargiai. / Trausls; rūkotiis uzmanīgi / Breekbaar, voorzichtig behandelen. / Ømtålig, håndter forsigtig. / Krucha zawartość, przenosić ostrożnie. / Frágil, Manuseie com Cuidado. / Fragil, manipulați cu atenție. / Хрупкое! Обращаться с осторожностью. / Křehké, vyžaduje sa opatrná manipulácia. / Lomljivo - rukujte pažljivo. / Bräckligt. Hantera försiktigt. / Kolay Kırılır, Dikkatli Taşıyın. / Тендітна, звертатися з обережністю / 易碎，小心轻放



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Becton Dickinson GmbH
Tullastrasse 8-12
69126 Heidelberg/Germany
Phone: +49-62 21-30 50; Fax: +49-62 21-30 52 16
Reception_Germany@bd.com

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