

INTENDED USE

BD Difco™ Listeria O Antisera Types 1, 4 and Poly are used for identifying *Listeria monocytogenes* in the slide agglutination test. BD Difco Listeria O Antigens Types 1 and 4 (Slide) are used as positive controls in the slide agglutination test.

SUMMARY AND EXPLANATION

First described in 1926 by Murray, Webb and Swann,¹ *Listeria monocytogenes* is a widespread problem in public health and the food industries. This organism can cause human illness and death, particularly in immunocompromised individuals and pregnant women.² The first reported foodborne outbreak of listeriosis was in 1985³ and, since then, microbiological and epidemiological evidence from both sporadic and epidemic cases of listeriosis has shown that the principal route of transmission is via the consumption of foodstuffs contaminated with *L. monocytogenes*.⁴

The organism has been isolated from commercial dairy and other food processing plants and is ubiquitous in nature, being present in a wide-range of unprocessed foods and in soil, sewage, silage and river water.⁵

Listeria spp. grow over a pH range of 4.4–9.6 and survive in food products with pH levels outside these parameters.⁶ *Listeria* spp. are microaerophilic, gram-positive, asporogenous, non-encapsulated, non-branching, regular, short, motile rods. Motility is most pronounced at 20 °C.

Strains of *Listeria* spp. are divided into serotypes based on cellular (O) and flagellar (H) antigens.⁷ Thirteen serotypes of *L. monocytogenes* are known. Most human disease is caused by serotypes 1/2a, 1/2b and 4b.⁸

PRINCIPLES OF THE PROCEDURE

Identification of *L. monocytogenes* includes both biochemical and serological confirmation.

Serological confirmation requires that the microorganism (antigen) react with its corresponding antibody. This *in vitro* reaction produces macroscopic clumping called agglutination. The desired homologous reaction is rapid, does not dissociate (high avidity) and binds strongly (high affinity).

Because a microorganism (antigen) may agglutinate with an antibody produced in response to another species, heterologous reactions are possible. Such unexpected and perhaps unpredictable reactions may lead to some confusion in serological identification. A positive homologous agglutination reaction should support the morphological and biochemical identification of the microorganism.

Agglutination of the somatic antigen in the slide test appears as a firm granular clumping. Homologous reactions occur rapidly and are strong (3+). Heterologous reactions form slowly and are weak.

REAGENTS

BD Difco Listeria O Antisera Types 1, 4 and Poly are lyophilized, polyclonal rabbit antisera containing approximately 0.1% sodium azide as a preservative. Listeria O Antisera Types 1 and 4 are specific for the respective serotypes of *L. monocytogenes* while Listeria O Antiserum Poly contains agglutinins for *L. monocytogenes* serotypes 1 and 4.

BD Difco Listeria O Antigens Types 1 and 4 (Slide) are suspensions of appropriate *L. monocytogenes* serotypes containing 0.3% formaldehyde as a preservative. When used according to the suggested procedure, the reagents will yield the following:

Reagent	Vial	Number of tests
Listeria O Antiserum	1 mL	400 slide tests
Listeria O Antigen (Slide)	5 mL	100 slide tests

Warnings and Precautions

For *in vitro* Diagnostic Use.

This Product Contains Dry Natural Rubber.

Observe aseptic techniques and established precautions against microbiological hazards throughout all procedures. After use, specimens, containers, slides, tubes and other contaminated material must be sterilized by autoclaving. Directions for use should be followed carefully.

WARNING: This product contains sodium azide. Sodium azide is toxic by inhalation, by skin contact, and if swallowed. Contact with acid liberates very toxic gas. After contact with skin, wash immediately with plenty of water. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up.

Warning



Cat. No. Description

223001	BD Difco™ Listeria O Antiserum Type 1, 1 mL
223011	BD Difco™ Listeria O Antiserum Type 4, 1 mL
223021	BD Difco™ Listeria O Antiserum Poly, 1 mL

H302 Harmful if swallowed.

P264 Wash thoroughly after handling. **P270** Do not eat, drink or smoke when using this product. **P301+P312** IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. **P330** Rinse mouth. **P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

Danger



Cat. No. Description

223031 BD Difco™ *Listeria* O Antigen Type 1 (Slide), 5 mL

223041 BD Difco™ *Listeria* O Antigen Type 4 (Slide), 5 mL

H317 May cause an allergic skin reaction. **H350** May cause cancer.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray. **P280** Wear protective gloves. **P272** Contaminated work clothing must not be allowed out of the workplace. **P201** Obtain special instructions before use. **P202** Do not handle until all safety precautions have been read and understood. **P321** Specific treatment (see on this label). **P363** Wash contaminated clothing before reuse.

P308+P313 IF exposed or concerned: Get medical advice/attention. **P333+P313** If skin irritation or rash occurs: Get medical advice/attention. **P302+P352** IF ON SKIN: Wash with plenty of water. **P405** Store locked up. **P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

Storage: Store lyophilized and rehydrated BD Difco *Listeria* O Antisera at 2–8 °C.

Store BD Difco *Listeria* O Antigen (Slide) at 2–8 °C.

The expiration date applies to the product in its intact container when stored as directed.

Prolonged exposure of reagents to temperatures other than those specified is detrimental to the products.

Discard any antiserum that is cloudy or has a precipitate after rehydration or storage unless it can be clarified by centrifugation or filtration and demonstrates proper reactivity with validated positive and negative controls. Gross turbidity indicates contamination and such antisera should be discarded.

Examine antigen vials for agglutination before use. Suspensions with agglutination are not usable and should be discarded.

SPECIMEN COLLECTION AND PREPARATION

Clinical specimens: *Listeria* can be recovered on selective differential media such as Oxford Agar, Modified Oxford Agar, LPM Agar or PALCAM Medium. For specific recommendations on isolation of *Listeria* from clinical specimens, consult appropriate references.⁸⁻¹⁰ Determine that a pure culture of the microorganism has been obtained and that biochemical test reactions are consistent with the identification of the organism as *L. monocytogenes*. After these criteria are met, serological identification can be performed.

Food or dairy samples: *Listeria* can be recovered when samples are processed to recover injured microorganisms and prevent overgrowth of competing microorganisms. Consult appropriate references for recommended procedures for the isolation of *Listeria* from foods.^{6,11,12} Having followed an established protocol, isolate a pure culture of the microorganism and confirm that biochemical test reactions are consistent with the identification of the organism as *L. monocytogenes*. After these criteria are met, serological identification can be performed.

PROCEDURE

Materials Provided: BD Difco *Listeria* O Antiserum Type 1, BD Difco *Listeria* O Antiserum Type 4, BD Difco *Listeria* O Antiserum Poly, BD Difco *Listeria* O Antigen Type 1 (Slide), BD Difco *Listeria* O Antigen Type 4 (Slide).

Materials Required But Not Provided:

Slide Test: BD Difco FA Buffer (Dried), agglutination slides, applicator sticks, water bath (80–100 °C), droppers.

Reagent Preparation: Equilibrate all materials to room temperature before performing the tests. Ensure that all glassware and pipettes are clean and free of residues such as detergents.

***Listeria* O Antisera:** To rehydrate, add 1 mL sterile purified water to each vial. Rotate gently to dissolve contents completely.

***Listeria* O Antigens (Slide)** are ready to use.

Test Procedure

Slide Test

1. Rehydrate BD Difco FA Buffer as per label directions.
2. Suspend a loopful of the test isolate growth from a solid noninhibitory agar medium in approximately 5 mL of BD Difco FA Buffer.
3. Heat the organism suspension at 80–100 °C (in a water bath) for 1 h.
4. Centrifuge the suspension at 2,000–5,000 RCF for 15–20 min and remove the bulk of the supernatant fluid.
5. Resuspend the organism in the remaining portion of supernatant fluid.
6. Prepare a 1:20 dilution of the desired BD Difco *Listeria* Antiserum in 0.85% NaCl solution.
7. On an agglutination slide, dispense 1 drop of the desired diluted BD Difco *Listeria* Antiserum onto each of two separate areas. Dispense 1 drop of BD Difco FA Buffer onto a third area of the same slide. The first drop of antiserum will be used for the test isolate and the second for the positive control. The drop of BD Difco FA Buffer will be used for the negative control.
8. Dispense 1 drop of organism suspension from step 5 to the first drop of antiserum.

9. **Positive control:** Dispense 1 drop of homologous BD Difco Listeria O Antigen (Slide) to the second drop of antiserum.
10. **Negative control:** Dispense 1 drop of organism suspension from step 5 to the drop of BD Difco FA Buffer on the agglutination slide.
11. Rotate the slide for 1–2 min and read for agglutination.

User Quality Control: At the time of use, test both positive and negative antigen controls to check performance of the antiserum, techniques and methodology. If results of the positive control or negative control are not as described, the test is invalid and results cannot be reported.

Quality control requirements must be performed in accordance with applicable local, state and/or federal regulations or accreditation requirements and your laboratory's standard Quality Control procedures. It is recommended that the user refer to pertinent CLSI guidance and CLIA regulations for appropriate Quality Control practices.

RESULTS

Slide Test

1. Read and record results as follows:

4+	100% agglutination, background is clear to slightly hazy.
3+	75% agglutination, background is slightly cloudy.
2+	50% agglutination, background is moderately cloudy.
1+	25% agglutination, background is cloudy.
–	No agglutination.

2. For the test isolate, a 3+ or greater agglutination within 1–2 min is a positive result.
3. A partial (less than 3+) or a delayed agglutination reaction should be considered negative.

LIMITATIONS OF THE PROCEDURE

1. Serological techniques employing BD Difco Listeria O Antisera serve as corroborative evidence for the identification of *L. monocytogenes*. Final identification cannot be made without consideration of morphological, serological and biochemical characterization.
2. Excessive heat from external sources (hot bacteriological loop, burner flame, light source, etc.) may prevent making a smooth suspension of the microorganism or cause evaporation or precipitation of the test mixture. False positive reactions may occur.
3. Rough culture isolates occur and will agglutinate spontaneously, causing agglutination of the negative control (autoagglutination). If autoagglutination occurs, the culture is rough and cannot be tested. Subculture to a noninhibitory medium, incubate and test the organism again.
4. Agglutination reactions of 3+ or greater in the slide test are interpreted as positive reactions. Cross-reactions resulting in a 1+ or 2+ agglutination are likely since there are somatic antigens shared among different organisms such as staphylococci, enterococci and *Bacillus* species.¹⁰
5. Prolonged exposure of reagents to temperatures other than those specified is detrimental to the products.
6. Exposure of Listeria O Antigens to temperatures below 2 °C can result in autoagglutination. Antigens must be smooth uniform suspensions. Examine antigen vials for agglutination before use. Suspensions with agglutination are not usable and should be discarded.

PERFORMANCE CHARACTERISTICS

1. The positive control, using the appropriate Listeria O Antigen, should show 3+ or greater agglutination in the slide test.
2. The negative control should show no agglutination.

Sensitivity of BD Difco Listeria O Antisera Types 1, 4 and Poly is determined by demonstrating appropriate reactivity in the slide test, as defined in the "Results" section using the respective homologous BD Difco Listeria O Antigen. Specificity is determined by demonstrating non-reactivity against non-related (heterologous) BD Difco Listeria O Antigens.

AVAILABILITY

Cat. No. Description

223001	BD Difco™ Listeria O Antiserum Type 1, 1 mL
223011	BD Difco™ Listeria O Antiserum Type 4, 1 mL
223021	BD Difco™ Listeria O Antiserum Poly, 1 mL
223031	BD Difco™ Listeria O Antigen Type 1 (Slide), 5 mL
223041	BD Difco™ Listeria O Antigen Type 4 (Slide), 5 mL
223143	BD Difco™ FA Buffer, Dried, 6 x 10 g
223142	BD Difco™ FA Buffer, Dried, 100 g

REFERENCES

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Technical Information: In the United States contact BD Technical Service and Support at 1.800.638.8663 or bd.com.

Change History

Revision	Date	Change Summary
(06)	2019-09	Converted printed instructions for use to electronic format and added access information to obtain the document from BD.com/e-labeling. Removed Limitations of the Procedure #7. This statement conflicts with the statement in the Reagents Section regarding clarification of antiserum. Customers are allowed to clarify the antiserum by centrifugation or filtration.

US Customers only: For symbol glossary, refer to bd.com/symbols-glossary



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Use by / Използвайте до / Spotføjte do / Brug før / Verwendbar bis / Χρήση έως / Usar antes de / Kasutada enne / Date de péremption / 사용 기한 / Upotrijebiti do / Felhasználhatóság dátuma / Usare entro / Дейін пайдалануға / Naudokite iki / Izljetot līdz / Houdbaar tot / Brukes for / Stosować do / Prazo de validade / A se utiliza până la / Използovať до / Použite do / Upotrebiti do / Använd före / Son kulanma tarihi / Використати до / 使用截止日期

YYYY-MM-DD / YYYY-MM (MM = end of month)
 ГГГГ-ММ-ДД / ГГГГ-ММ (ММ = края на месеца)
 RRRR-MM-DD / RRRR-MM (MM = koniec miesiąca)
 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)
 ЖЖЖЖ-АА-КК / ЖЖЖЖ-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 månaden)
 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)
 ГГГГ-ММ-ДД / ГГГГ-ММ (ММ = конец месяца)
 RRRR-MM-DD / RRRR-MM (MM = koniec miesiąca)
 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)



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



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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 meditsiiniparatuur / Dispositif médical de diagnostic in vitro / Medicinska pomagala za In Vitro Dijagnostiku / In vitro diagnosztikai orvosi eszköz / Dispositivo medical per diagnostica in vitro / Жасанды жағдайда жүргізетін медициналық диагностика аспабы / In Vitro Diagnostic 의료 기기 / In vitro diagnostikos prietais / Medicinas ierīces, 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 pomůcka na diagnostiku in vitro / Medicinski uređaj za in vitro dijagnostiku / Medicinteknisk produkt för in vitro-diagnostik / In Vitro Diagnostik Tibbi Cihaz / Медицинский прибор для диагностики in vitro / 体外诊断医疗设备



Temperature limitation / Температурни ограничения / Teplotní omezení / Temperaturbegrænsning / Temperaturbegrenzung / Περιορισμοί θερμοκρασίας / Limitación de temperatura / Temperaturi 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 / Ohraničenje teploty / Ograničenje temperature / Temperaturgräns / Sıcaklık sınırlaması / Обмеження температури / 温度限制



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(코트) / Partijos numeris (LOT) / Partijas kods (laidiens) / Lot number / 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 / Съдържанието 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 / Contenu suffisant pour <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 / Continut suficient pentru <n> teste / Достаточно для <n> тестов(a) / Obsah vystačí na <n> testov / Sadržaj dovoljan za <n> testova / Innehåller tillräckligt för <n> analyser / <n> test için yeterli malmaze içerir / Вистачить для аналізів: <n> / 足够进行 <n> 次检测



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CONTROL	Control / Контролно / Kontrola / Kontrol / Kontrolle / Μάρτυρας / Kontroll / Contrôle / Controllo / Бақылау / 컨트롤 / Kontrolé / Kontrolle / Controle / Controllo / Контроль / kontroll / 对照
CONTROL +	Positive control / Положителен контрол / Pozitivni kontrola / Positiv kontrol / Positive Kontrolle / Θετικός μάρτυρας / Control positivo / Positiivne kontroll / Contrôle positif / Pozitivna kontrola / Pozitív kontroll / Controllo positivo / Оң бақылау / 양성 컨트롤 / Teigiama kontrolė / Pozitívá kontrolé / Positieve controle / Kontrola dodatnia / Controllo positivo / Control pozitiv / Положительный контроль / Pozitif kontrol / Позитивний контроль / 阳性对照试剂
CONTROL -	Negative control / Отрицателен контрол / Negativní kontrola / Negativ kontrol / Negative Kontrolle / Αρνητικός μάρτυρας / Control negativo / Negatiivne kontroll / Contrôle négatif / Negativna kontrola / Negativ kontroll / Controllo negativo / Негативный бақылау / 음성 컨트롤 / Neigiama kontrolė / Negatívá kontrolé / Negatieve controle / Kontrola ujemna / Controllo negativo / Control negativ / Отрицательный контроль / Negatif kontrol / Негативний контроль / 阴性对照试剂
STERILE EO	Method of sterilization: ethylene oxide / Метод на стерилизация: етиленов оксид / Způsob sterilizace: etylenoxid / Steriliseringensmetode: ethylenoxid / Sterilisationsmethode: Ethylenoxid / Μέθοδος αποστείρωσης: αιθυλενοξείδιο / Método de esterilización: óxido de etileno / Steriliseringensmetode: etüleenoksiid / Méthode de stérilisation : oxyde d'éthylène / Metoda sterilizácie: etilén-oxid / Sterilizálás módszere: etilén-oxid / Metoda di sterilizzazione: ossido di etilene / Sterilizacija edici – etilen totygas / 소독 방법: 에틸렌옥사이드 / Sterilizavimo būdas: etileno oksidas / Sterilizēšanas metode: etilēnoksīds / Gesteriliseerd met behulp van ethyleenoxide / Steriliseringensmetode: etylenoksid / Metoda sterylizacji: tienek etylu / Método de esterilização: óxido de etileno / Metodă de sterilizare: oxid de etilenă / Метод стерилизации: этиленоксид / Metodá sterilizácie: etylenoxid / Metoda sterilizacije: etilen oksid / Steriliseringensmetod: etenoxid / Sterilizasyon yöntemi: etilen oksit / Метод стерилизації: этиленоксидом / 灭菌方法: 环氧乙烷
STERILE R	Method of sterilization: irradiation / Метод на стерилизация: ирадиация / Způsob sterilizace: záření / Steriliseringensmetode: bestrålning / Sterilisationsmethode: Bestrahlung / Μέθοδος αποστείρωσης: ακτινοβολία / Método de esterilización: irradiación / Steriliseringensmetode: kiirgus / Méthode de stérilisation : irradiation / Metoda sterilizácie: zračenie / Sterilizálás módszere: besugárzás / Metoda di sterilizzazione: irradiazione / Sterilizacija edici – sąlyne tytipy / 소독 방법: 방사 / Sterilizavimo būdas: radiacija / Sterilizēšanas metode: apstarošana / Gesteriliseerd met behulp van bestraling / Steriliseringensmetode: bestrålning / Metoda sterylizacji: napromienianie / Método de esterilização: irradiação / Metodă de sterilizare: iradiere / Метод стерилизации: облучение / Metodá sterilizácie: ožiarenie / Metoda sterilizacije: ozračavanje / Steriliseringensmetod: strålning / Sterilizasyon yöntemi: ırdıayasyon / Метод стерилизації: опроміннення / 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 / Biológiai veszélyes / Rischio biologico / Биологический тауекелдер / 생물학적 위험 / Biologinis pavojus / Biologiskie riski / Biologisches Risiko / Biologisk risiko / Zagrożenia biologiczne / Perigo biológico / Riscuri biologice / Biologische опасность / Biologické riziko / Biološki rizici / Biologisk risk / Biyojik Riskler / Біологічна небезпека / 生物学风险
	Caution, consult accompanying documents / Внимание, направете справка в придружаващите документи / Pozor! Pristudujte si příloženou dokumentaci! / Forsigtig, se ledsagende dokumenter / Achtung, Begleitdokumente beachten / Προσοχή, συμβουλευτείτε τα συνοδευτικά έγγραφα / Precaución, consultar la documentación adjunta / Ettevaatust! Lugeda 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 priedamus dokumentus / Piesardziba, skatit pavaddokumentus / Voorzichtig, raadpleeg 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 / Vystraha, pozri sprievodné dokumenty / Pažnja! Pogledajte priložena dokumenta / Obs! Se medföljande dokumentation / Dikkat, birlikte 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 temperatuuripiir / Limite supérieure de température / Gornja dozvoljena temperatura / Felső hőmérsékleti határ / Limite superiore di temperatura / Температураның рұқсат етілген жоғарғы шегі / 상한 온도 / Aukščiausia laikymo temperatūra / Ausgējā 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 prostředi / Opbevarer tørt / Trocklagern / 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 sausiai / Uzglabāt sausu / Droog houden / Holdes tørt / Przechowywać w stanie suchym / Manter seco / A se feri de umezeală / Не допускать попадания влаги / Uchovávaťe v suchu / Držite na suvom mestu / Förvaras tørt / Kuru bir şekilde muhafaza edin / Бергетти від вологості / 请保持干燥
	Collection time / Време на събиране / Čas odběru / Opsamlingstidspunkt / Entnahmeuhrzeit / Ώρα 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 förvretaking / Godzina pobrania / Hora de colheita / Ora colectării / Время сбора / Doba odboru / Vreme prikupljanja / Uppsamlingstid / Toplama zamanı / Час забору / 采集时间
	Peel / Обелете / Otevfete zde / Abn / Abziehen / Αποκολλήστε / Desprender / Koorida / Décoller / Otvoriti skin / Húzza le / Staccare / Ўстиғи қабатын алып таста / 벗기 / Plęsti čia / Atfimt / Schillen / Trek av / Oderwać / Destacar / Se dezlipęte / Отклеить / Odtrhnite / Oljuštiti / Dra isär / Ayırma / Відкрити / 撕下
	Perforation / Перфорация / Perforace / Perforering / Διάρθρωση / Perforación / Perforatsioon / Perforacija / Perforálás / Perforazione / Тесик тесу / 찢취선 / Perforacija / Perforácia / Perforatie / Perforacja / Perfuração / Perforare / Перфорация / Perforácia / Perforasyon / Перфорация / 穿孔
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	Keep away from heat / Пазете от топлина / Nevystavujte přílišnému teplu / Må ikke udsættes for varme / Vor Wärme schützen / Κρατήστε το μακριά από τη θερμότητα / Mantener alejado de fuentes de calor / Hoida eemal valguusest / Protéger de la chaleur / Držati dalje od izvora topline / Övja a melegtől / Tenere lontano dal calore / Сапқын жерде сақта / 열을 피해야 함 / Laikyti atokiau nuo šilumos šaltinių / Sargāt no karstuma / Beschermen tegen warmte / Må ikke utsettes for varme / Przechowywać z dala od źródeł ciepła / Manter ao abrigo do calor / A se feri de căldură / Не напевать / Uchovávaťe mimo zdroja tepla / Držite dalje od toplote / Fär ej utsättas för värme / Isidan uzak tutun / Бергетти від дії тепла / 请远离热源
	Cut / Срежете / Odstřihněte / Klip / Schneiden / Κόψτε / Cortar / Lögata / Découper / Reži / Vágja ki / Tagliare / Keciңiz / 잘라내기 / Kirpti / Nogriez / Knippen / Kutt / Odciać / Cortar / Decupați / Отрезать / Odstřihnite / Iseći / Klipp / Kesme / Pozpizati / 剪下



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



Keep away from light / Παзете 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 / Feriți de lumină / Хранить в темноте / Uchovávajte mimo dosahu svetla / Držite dalje od svetlosti / Får ej utsättas för ljus / Işıktan uzak tutun / Беретти від дії світла / 请远离光线



Hydrogen gas generated / Образуван е водород газ / Možnost úniku plynného vodíku / Frembringer hydrogengas / Wasserstoffgas erzeugt / Δημιουργία αερίου υδρογόνου / Producción de gas de hidrógeno / Vesinikgaasi tekitatud / Produit de l'hydrogène gazeux / Sadrží hydrogen vodik / Hidrogén gázt fejleszt / Produzione di gas idrogeno / Газтөктес сутері пайда болды / 수소 가스 생성됨 / Išskiria vandenilio dujas / Rodas ūdenradis / Waterstofgas gegenereerd / Hydrogengass generert / Powoduje powstawanie wodoru / Produção de gás de hidrogénio / Generare gaz de hidrogen / Выделение водорода / Vyrobené použitím vodíka / Osloбаda se vodonik / Genererad vätgas / Açığa çıkan hidrojen gazı / Реакция 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 / Patsiendi 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 / Identificationnummer 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 / Идентификатор пациента / 患者标识号



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

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