

!" #&/
4;O <548G=>3> 70AB>AC20==O ;V:0@AL:>3> 70A>1C

!□\$®
(AKSEF®)

!;:04:

4VNG0 @5G>28=0: cefuroxime;

1 B01;5B:0 :A8 F5DC@>:A8

4>?>28=8: :@>E<0;L ?@565;0B8=V7>20=89, :@>A?>2V4>=, =0B@VN :@>A:0@<5;>70, =0B@VN
;0C@8;AC;LD0B, <03=VN AB50@0B, :@5<=VN 4V>:A84 :>;>W4=89 1572>4=89, ?>:@8BBO Sepifilm LP
770: 3V?@><5;>70, F5;N;>70 :@8AB0;VG=0, :8A;>B0 AB50@8=>20, B8B0=C 4V>:A84 (171).

V:0@AL:0 D>@<0. "01;5B:8, 2:@8BV >1>;>=:>N.

A=>2=V DV78:>-EVABV: B01;5B:8 ?@>4>23C20BV, 2:@8BV >1>;>=:>N, 1V;>3> :>;L>@C, 7 ;V=VTN
@>7;>4=>3> 1>:C V HB0< NOBEL 7 V=H>3>.

\$0@<0:>B5@0?52B8G=0 3@C?0.

=B810:B5@V0;L=V 70A>18 4;O A8AB5<=>3> 70AB>AC20==O. ?>A?>@8=8 4@C3>3> ?>:>;V==O.
>4 "% J01D !02.

\$0@<0:>;>3VG=V 2;0AB82>ABV.

\$0@<0:>48=0

? - ?5@>@0;L=0 D>@<0 10:B5@8F84=>3> F5D0;>A?>@8=>2>3> 0=B81V>B8:0 F5DC@>:A8□-;0:B0<07
V ?@>O2;OT 0:B82=VABL ?@>B8 H8@>:>3> A?5:B@0 3@078B82=8E V 3@0<=530B82=8E >@30=V7
0:B5@8F84=0 4VO F5DC@>:A8< ?@83=VG5==O A8=B57C ;:VB8==>W >1>;>=:8 >@30=V7
01CB0 @578AB5=B=VABL 4> 0=B81V>B8:0 2V4@V7=OTBLAO C @V7=8E @53V>=0E B0 <>65 7<, 0
4;O >:@5<8E HB04> GCB;82>ABV 4> 0=B81V>B8:0, >A>1;82> ?@8 ;V:C20==V BO6:8E V=D5:FV9.
&5DC@>:A8< <0T 28A>:C 0:B82=VABL 2V4=>A=> B0:8E>@30=V7

3@0<=530B82=V 05@>18: *Haemophilus influenzae* (2;;NG0NG8 HB0<8, ABV9:V 4> 0aemophilus
parainfluenzae, Moraxella (Branhamella) catarrhalis, Neisseria gonorrhoea(2;;NG0NG8 HB0<8, I>
?@>4C:CNBL ?5=VF8;V=07C, B0 ?5=VF8;V=07>=5?@>4C:CNGV HB0<8), *Escherichia coli*, *Klebsiella spp.*,
Proteus mirabilis, *Providencia spp.*, *Proteus rettgeri*

3@078B82=V 05@>18: *Staphylococcus aureus* (<5B8F8;V=GCB;82V HB0<8) B0 :>03C;07>=530B82=V
AB0DV;>:>:8 (<5B8F8;V=GCB;82V HB0<8), *Streptococcus pyogenes* (B0 V=HV 15B0-35<>;VB8G=V
AB@5?B>:>:8), *Streptococcus pneumoniae*, *Streptococcus 3@C?8* (*Streptococcus agalactiae*)
0=05@>18: 3@078B82=V B0 3@0<=530B82=V :>:8 (2;;NG0NG8 2848 *Peptococcus* B0 *Peptostreptococcus*),
3@078B82=V 10:B5@VW (2;;NG0NG8 2848 *Clostridium*) B0 3@0<=530B82=V 10:B5@VW (2;;NG0NG8
2848 *Bacteroides* B0 *Fusobacterium*), *Propionibacterium spp.*;

V=HV >@30=V7<8: *orrelia burgdorferi*

V:@>>@30=V7<8, =5GCB;82V 4> F5DC@>:A8: *llostridium difficile*, *Pseudomonas spp.*, *Campylobacter spp.*,
Acinetobacter calcoaceticus, *Listeria monocytogenes* (<5B8F8;V=-=5GCB;82V HB0<8 *Staphylococcus aureus* B0
Staphylococcus epidermidis, *Legionella spp.*

5O:V HB0<8 >3@0=V7 F5DC@>:A8 *Enterococcus (Streptococcus) faecalis*, *Morganella morgani*, *Proteus
vulgaris*, *Enterobacter spp.*, *Citrobacter spp.*, *Serratia spp.*, *acteroides fragilis*

\$0@<0:>:V=5B8:0.

VA;O ?5@>@0;L=>3> 70AB>AC20==O F5DC@>:A8@1CTBLAO C :8H5G=8:C, 3V4@>;V7CTBLAO =0
A;87>2V9 >1>;>=FV >AB0==L>3> V C 283;04V F5DC@>:A8B@0?;OT 4> :@>2>>1V3C.

?B8<0;L=89 @V25=L 01A>@1FVW A?>AB5@V30TBLAO >4@07C ?VA;O ?@89>20BFV :@>2V
A?>AB5@V30TBLAO ?@81;87=> G5@57 2-3 3>48=8 ?VA;O ?@89>4 =0?V2282545==O ?@5?0@0BC
AB0=>28BL ?@81;87=> 1-1,5 3>48=8. V25=L 7207C20==O 7 1V;:0-8 - 33-55 % 70;56=> 2V4 <5B>48:8
287=0G5==O. &5DC@>:A8< 284V;OTBLAO =8@:0<8 C =57< :0=0;LF52>W A5:@5FVW B0 ;:C1>G:>2>W
DV;LB@0FVW.

4=>G0A=5 70AB>AC20==O ?@>15=5F84C 71V;LICT ?;>IC ?V4 :@82>N A5@54=L>W A8@>20B:>2>W
:>=F5=B@0FVW =0 50 %.

V25=L F5DC@>:A820BFV :@>2V 7<5=HCTBLAO 2=0A;V4>: 4V0;V7C.

;V=VG=V E0@0:B5@8AB8:8.

>:070==O.

V:C20==O V=D5:FV9, A?@8G8=5=8E GCB;828<8 4> ?@5?0@0BC >@30=V7<0<8:

- V=D5:FVW ->@30=V2: A5@54=V9 >B8B, A8=CA8B, B>=78;VB V D0@8=3VB;

- V=D5:FVW 48E0;L=8E H;OEV2: ?=52<>=VO, 3>AB@89 1@>=EVB, 703>AB@5==O E@>=VG=>3> 1@>=EVBC;

- V=D5:FVW A5G>282V4=8E H;OEV2: ?VT;>=5D@8B, F8AB8B B0 C@5B@8B;

- V=D5:FVW H:V@8 B0 <O:8E B:0=8=: DC@C=:C;L>7, ?V>45@

- 3>=>@50, 3>AB@89 =5CA.;04=5=89 3>=>.:>289 C@5B@8B V F5@2VF8B;

- ;V:C20==O @0==VE ?@>O2V2 E2>@>18 09<0 B0 ?>40;LH5 ?>?5@5465==O ?V7=VE ?@>O2V2

E2>@>18 09<0 C 4>@>A;8E V 4VB59 2V:< 2V4 12 @>:V2.

@>B8?>:070==O.

V428I5=0 GCB;82VABL 4> F5D0;>A?>@8=>28E 0=B81V>B8:V2.

70T<>4V0 7 V=H8<8 ;V:0@AL:8<8 70A>10<8 B0 V=HV 2848 270T<>4V9.

@5?0@0B8, I> 7<5=HCNBL :8A;>B=VABL H;C=:>2>3> A>:C,<>6CBL 7<5=HC20B8 1V>4>ABC?=VABL

?@5?0@0BC V <ONBL 2;0AB82VABL ;V:2V4>2C20B8 5D5:B ?>:@0I5=>W 01A>@1FVW ?VA;O

26820==O W6V.

/: V V=HV 0=B810:B5@V0;L=V 70A>18, F5DC@>:A8< <>65 2?;820B8 =0 D;>@C :8H5G=8:C, I>

?@872>48BL 4> 7<5=H5==O @501A>@1FVW 5AB@>35=V2, B0 7<5=HC20B8 5D5:B82=VABL :>

<1V=>20=8E ?5@>@0;L=8E :>=B@0F5?B82=8E 70A>1V2.

A:V;L:8 ?@8 D5@>FV0=V4=>:A8<<< 0:A5B8;<<, @5:<<5=4CTBLAO 28:>@8AB>2C20B8

3;N:>7>>:A8407=C 01> 35:A>:V=07=C <5B>48:8. &5DC@>:A8< =5 2?;820T =0 ;C6=>.:?V:@0B=89 0=0;V7

287=0G5==O :@50B8=V=C.

!CAC20==O 7 ?@>15=5F84<< 71V;LHCT ?>;>IC ?V4 :@82>N :>=F5=B@0FVO-G0A C A8@>20BFV

:@>2V =0 50 %.

@8 ;V:C20==V F5D0;>A?>@8=0<8 1C;8 ?>2V4<<;5==O ?@> ?>78B82=89 B5AB C<1A0. &59 D5=>

<5= <>65 2?;820B8 =0 ?5@5E@5A=C ?@>1C =0 AC2V.

A>1;82>ABV 70AB>AC20==O.

>A>1;82>N >15@56=VABN ?@5?0@0B ?@87=0G0B8 ?0FVT=B0<, C O:8E 2V47=0G0;8AO @50:FVW

3V?5@GCB;82>ABV =0 ?5=VF8;V=8 G8 V=HV 15B0-;0:B0<=V 0=B81V>B8:8.

0AB>AC20==O F5DC@>:A8B8:V2) <>65 ?@8725AB8 4> =043> @>ABC Candida. "@820;5 ;V:C20==O

<>65 B0:>6 ?@8725AB8 4> =043> @>ABC V=H8E =5GCB;828E >@30=V7 Enterococci, Clostridium difficile

), I> <>65, C A2>N G5@3C, 28<030B8 ?@8?8=5==O ;V:C20==O.

@8 70AB>AC20==V 0=B81V>B8:V2 H8@>:>3> A?5:B@0 4VW <>65 A?>AB5@V30B8AO ?A524<<5

<1@0=>7=89 :>;VB, I> <>65 ?@>O2;OB8AO 2V4 ;53:>W D>@<8 4> 703@>7;82>3> 4;O 68BBO

AB0=C. "> <0B8 F5 =0 C207V, O:I> C ?0FVT=BV2 28=8:0T BO6:0 4V0@50 ?V4 G0A 01> ?VA;O

0=B810:B5@V0;L=>W B5@0?VW. /:I> 28=8:0T B@820;0 01> 28@065=0 4V0@50 01> ?0FVT=B

2V4GC20T @V7:89 ?5@59<>?>4V1=89 1V;L C 682>BV, ;V:C20==O ?>28==> 1CB8 =5309=> ?@8?8=5=> V

?0FVT=BC A;V4 ?@>25AB8 @5B5;L=5 >1AB565==O.

V4 G0A ;V:C20==O F5DC@>:A8<<< 0:A5B8;<< E2>@>18 09<0 A?>AB5@V30;0AO @50:FVO /@8H0-

5@:A359<5@0, O:0 28=8:0T 157?>A5@54=L> G5@57 10:B5@8F84=C 4VN F5DC@>:A8>@30=V7<, I>

A?@8G8=OT E2>@>1C 09<0, A?V@>E5BC Borrelia burgdorferi 0FVT=B0< =5>1EV4=> ?>OA=8B8, I> F5

728G09=89 =0A;V4>: 0=B81V>B8:>B5@0?VW E2>@>18 09<0, I> <8=0T 157 ;V:C20==O.

@8 ?@>2545==V ?>A;V4>2=>W B5@0?VW G0A ?5@5E>4C 7 ?0@5=B5@0;L=>W B5@0?VW =0

?5@>@0;L=C 287=0G0TBLAO BO6:VABN V=D5:FVW, ;V=VG=8 AB0=<< ?0FVT=B0 B0

GCB;82VABN ?0B>35==>3> >@30=V7ABV ;V=VG=>3> ?>:@0I5==O ?@>BO3< 72 3>48=

?0@5=B5@0;L=C B5@0?VN A;V4 ?@>4>26C20B8. 5@54 ?>G0B:<< ?@>2545==O ?>A;V4>2=>W

B5@0?VW A;V4 >7=09><8B8AO 7 2V4?>2V4=>N =AB@C:FVTN 4;O <548G=>3> 70AB>AC20==O

F5DC@>:A8

0AB>AC20==O C ?5@V>4 203VB=>ABV 01> 3>4C20==O 3@C44N.

:A?5@8<5=B0;L=8E 4>:07V2 5<1@V>?0B8G=>W 01> B5@0B>35==>W 4VW F5DC@>:A8ABV.

&5DC@>:A8< ?@>=8:0T C 3@C4=5 <>;>:, B>4 3>4C20==O 3@C44N ?@5?0@0B A;V4 70AB>A>2C20B8 7 >15@56=VABN.

40B=VABL ??;820B8 =0 H284:VABL @50:FVW ?@8 :5@C20==V 02B>B@0=A?>@B< 01> V=H8<8 <5E0=V7<0<8.

A;V;L:8 ?@5?0@0B <>65 A?@8G8=8B8 70?0<>@>G5==O, ?0FVT=B0 =5>1EV4=> ?>?5@548B8, I> :5@C20B8 02B><>1V;5< V ?@0FN20B8 7 V=H8<8 <5E0=V7<0<8 A;V4 7 >15@56=VABN.

!>AVI 70AB>AC20==O B0 4>78.

'CB;82VABL 4> 0=B81V>B8:0 2V4@V7=OTBLAO 70;56=> 2V4 @53V>=C B0 <>65 71EV4=>ABV A;V4 725@=CB8AO 4> 4> GCB;82>ABV 4> 0=B81V>B8:0.

0728G09 B@820;VABL ;V:C20==O AB0=>28BL 7 4=V2.

;O :@0I>3> 70A2>T==O ?@5?0@0B @5:><5=4CTBLAO ?@89<0B8 ?VA;O W48.

>@>A;V

V;LHVABL V=D5:FV9 - 250<3 2 @078 =0 4>1C.

=D5:FVW A5G>282V4=8E H;OEV2 125 <3 2 @078 =0 4>1C.

=D5:FVW 48E0;L=8E H;OEV2 A5@54=L>W BO6:>ABV (1@>=EVB8) 250 <3 2 @078 =0 4>1C.

V;LH BO6:V V=D5:FVW 48E0;L=8E H;OEV2 01> ?V4>7@0 =0 ?=52<>=VN 500 <3 2 @078 =0 4>1C.

VT;>=5D@8B 250 <3 2 @078 =0 4>1C.

5CA:;04=5=0 3>=>@50 >4=>@07>2> 1 3 ?@5?0@0BC.

%2>@>10 09<0 C 4>@>A;8E V 4VB59 2V:< 2V4 12 @>:V2 500 <3 2 @078 =0 4>1C ?@>BO3>< 20 4=V2.

&5DC@>:A8< 28?CA:0TBLAO B0:>6 C 283;04V =0B@VT2>W A>;V 4;O ?0@5=B5@0;L=>3> 70AB>AC20==O. &5 40T <>6;82VABL ?@>2>48B8 ?>A;V4>2=C B5@0?VN >4=8< 0=B81V>B8:>< ?@8 ?5@5E>4V 7 ?0@5=B5@0;L=>3> 22545==O =0 ?5@>@0;L=5, O:I> 4;O FL>3> T :;V=VG=V ?>:070==O.

>A;V4>2=0 B5@0?VO

=52<>=VO: 1,5 3 ?@5?0@0BC C D>@: ?> 500 <3 2 @078 =0 4>1C ?5@>@0;L=> ?@>BO3>< 7 4=V2.

03>AB@5==O E@>=VG=>3> 1@>=EVBC: 750 <3 ?@5?0@0BC C D>@ 2-3 @078 =0 4>1C

(2=CB@VH=L>25==> 01> 2=CB@VH=L<07>2>) ?@>BO3>< 48-72 3>48= V7 ?>40;LH8<

70AB>AC20==O< ?@5?0@0BC C D>@: ?> 500 <3 2 @078 =0 4>1C ?5@>@0;L=> ?@>BO3>< 5-7 4=V2.

"@820;VABL O: ?0@5=B5@0;L=>3>, B0: V ?5@>@0;L=>3> ;V:C20==O 287=0G0TBLAO BO6:VABN V=D5:FVW B0 AB0=<< E2>@>3>.

VB8.

28G09=0 4>70 AB0=>28BL 125 <3 01> 10 <3/:3 <0A8 BV;0 2 @078 =0 4>1C (<0:A8<0;L=0 4>1>20 4>70 250 <3). ;O ;V:C20==O A5@54=L>3> >B8BC 4VB0< 2V:< 4> 2 @>:V2 ?@87=0G0B8

?@5?0@0B C 4>7V 125 <3 01> 10 <3/:3 <0A8 BV;0 2 @078 =0 4>1C (<0:A8<0;L=0 4>1>20 4>70 - 250 <3), 4VBO< 2V:< 2V4 2 @>:V2 250 <3 01> 15 <3/:3 <0A8 BV;0 2 @078 =0 4>1C (<0:A8<0;L=0 4>1>20 4>70 - 500 <3).

>A2V4C 70AB>AC20==O ?@5?0@0BC 4VBO< 2V:< 4> 3

0FVT=B8 ;VB=L>3> 2V:C

!F5FV0;L=8E 70AB5@565=L 4;O FVTW 3@C?8 ?0FVT=BV2 =5<0T. 0AB>A>2C20B8 728G09=V 4>78, <0:A8<0;L=> 1 3 =0 4>1C.

0FVT=B8 7 =8@:>2>N =54>AB0B=VABN

&5DC@>:A8< 282>48BLAO 3>;>2=8< G8=>< =8@:0<8. # ?0FVT=BV2 V7 28@065=8< ?>@CH5==O< DC=:FVW =8@>: @5:><5=4CTBLAO 7<5=H8B8 4>7C F5DC@>:A8, I>1 :>3> ?>2V;L=VHC 5:A:@5FVN (482. B01;8FN =86G5).

;V@5=A :@50B8=V=C	T1/2 (3>48=8)	5:<5=4>20=5 4>7C20==O
≥30 <:/E2	1,4□2,4	>@53C20==O 4>78 =5 ?>B@V1=> (70AB>A>2C20B8 AB0=40@B=C 4>7C 2V4 125 <3 4> 500 <3 2 @078 =0 4>1C)
10-29 <:/E2.	4,6	!B0=40@B=0 V=482V4C0;L=0 4>70 :>6=V 24 3>48=8
<10 <:/E2.	16,8	!B0=40@B=0 V=482V4C0;L=0 4>70 :>6=V 48 3>48=

#?@>4>26 35 <>4V0;V7C	2□4	4=C 4>40B:>2C AB0=40@B=C 4>7C A;V4 70AB>A>2C20B8 ?VA;O :>6=>3> 4V0;V7C
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VB8.

>A2V4C 70AB>AC20==O ?@5?0@0BC 4;O ;V:C20==O 4VB59 2V:> 4> 3
VBO< 2V:> 4> 3 @>:V2 =5 @5:><5=4CTBLAO ?@87=0G0B8 ?@5?0@0B :A5D® C D>@:.

5@54>7C20==O.

5@54>7C20==O F5D0;>A?>@8=0<8 <>65 A?@8G8=8B8 ?>4@07=5==O 3>;>2=>3> <>7:C V, O: =0A;V4>:,
<>6;825 28=8:=5==O AC4>
V25=L F5DC@>:A820BFV :@>2V <>6=0 7<5=H8B8 H;OE>< 35<>4V0;V7C B0 ?5@8B>=50;L=>3>
4V0;V7C.

>1VG=V @50:FVW.

>1VG=V 4VW ?@8 70AB>AC20==V F5DC@>:A8 V <0NBL 2 >A=>2=>1>@>B=89 E0@0:B5@.
>1VG=V @50:FVW, 2V4>>ABV ?@> O:V =02545=V =86G5, ;;0A8DV:>20=V 70 >@30=0<8 V A8AB5<0
<8 B0 70 G0AB>B>N WE 28=8:=5==O. 0 G0AB>B>N 28=8:=5==O @>7?>4V;5=V =0 B0:V :0B53>@VW:
4C65 G0AB> ≥ 1 =0 10, G0AB> ≥ 1 =0 100 B0 < 1 =0 10, =5G0AB> ≥ 1 =0 1000 B0 < 1 =0 100, @V4:> ≥ 1
=0 10000 B0 < 1 =0 1000, 4C65 @V4:> < 1 =0 10000.

=D5:FVW B0 V=207VW

'0AB>: =04Candida.

I>:C :@>V V ;VW A8AB5<8

'0AB>: 5>78=>DV;VO.

5G0AB>: ?>78B82=89 B5AB C<1A0, B@><1>F8B>?5=VO, ;59:>?5=VO (V=:;>8 3;81>:0).

C65 @V4:>: 35<>;VB8G=0 0=5

?>A?>@8=8 O: ;;0A <0NBL 2;0AB82VABL 01A>@1C20B8AO =0 ?>25@E=V<5<1@0=8 5@8B@>F8BV2
B0 270T<>4VOB8 B0< 7 0=B8BV;0<8, I> <>65 ?@8725AB8 4> ?>78B82=>W ?@>18 C<1A0 (2?;82 =0
287=0G5==O ACABV :@>2V) B0 (4C65 @V4:>) 4> 35<>;VB8G=>W 0=5

I>:C VW A8AB5<8

50:FVW 3V?5@GCB;82>ABV, 2;;NG0NG8:

5G0AB>: H:V@=V 28A8?0==O.

V4:>: :@>?82O=:0, A25@1V6.

C65 @V4:>: <548:0<5=B>7=0 30@OG:0, A8@>20B:>20 E2>@>10, 0=0DV;0:AVO.

I>:C =5@2>2>W A8AB5<8

'0AB>: 3>;>2=89 1V;L, 70?0<>@>G5==O.

I>:C B@02=>3> B@0:BC

'0AB>: 30AB@>5=B5@>;>3VG=V @>7;048, 2;;NG0NG8 4V0@5N, =C4>BC, 1V;L C 682>BV.

5G0AB>: 1;N20==O.

V4:>: ?A524><5<1@0=>7=89 :>;VB (482. @>74V; «A>1;82>ABV 70AB>AC20==O»)

I>:C 35?0B>1V;V0@=>W A8AB5<8

'0AB>: B@0=78B>@>5 ?V428I5==O @V2=O ?5GV=:>28E D5@<5=BV2 (" , !",).

C65 @V4:>: 6>2BO=8FO (3>;>2=8< G8=>< E>;5AB0B8G=0), 35?0B8B.

I>:C H:V@8 B0 ?V4H:V@=>W B:0=8=8

C65 @V4:>: ?>;V<>@D=0 5@8B5<0, A8=4@>< !BV25=A0-6>=A>=0, B>:A8G=89 5?V45@<0;L=89
=5:@>;V7 (5:70=B5<0B>7=89 =5:@>;V7).

"5@ABV.3 @>:8.

#<>28 715@V30==O.

15@V30B8 ?@8 B5@83V=0;L=V9 C?0:>2FV.

15@V30B8 C =54>ABC?=>

#?0:>2:0.

> 10 B01;5B>: C 1;VAB5@V.

> 1 01> 2 1;VAB5@8 C :0@B>==V9 C?0:>2FV.

0B53>@VO 2V4?CA:C.

0 @5F5?B>

8@>1=8:.

'!"" .(.

VAF57=0E>465==O 28@>1=8:0 B0 9>3> 04@5A020465==O 4VO;L=>ABV.

!0=:0;0@ >CW 81100 <. N7465, "C@5GG8=0.