

Р†РќРЎРЃР РЈРЉРІР†РЇ

**PrP»CŮ PjPµPrPëC‡PSPsPiPs P•P°CŮC,PsCŮCŮrPIP°PSPSCŮ P»C-PeP°CŮCŮCŮPëPsPiPs
P•P°CŮPsP±CŮ**

PŸPJ P>P¬P'PhPlPŷPhPhPlPŷ
(SULBACTOMAX)

$$P\check{Y}P\epsilon P\gg P^{\circ}P\Gamma:$$
$$PrC-C\bar{H}C\bar{H}C-CH_2PuC\bar{H}PsPIP\bar{e}PSP\bar{e}: C\bar{H}PuC,,C,CH_2C-P^{\circ}PeC\bar{H}PsPS, C\bar{H}C\bar{H}P\gg CH_2P\pm P^{\circ}PeC, P^{\circ}Pj;$$

1 C,,P»P°PePsPS 20 PjP» PjC-Cl'C,PëC,CH: C†PµC,,C,C7JC-P°PeCl'PsPS PSP°C,C7JC-C7 C†
PīPµC7JPµC7JP°C...C†PSPeC† PSP° C†PµC,,C,C7JC-P°PeCl'PsPS 1000 PjPi, Cl'C†P»CHP±P°PeC,P°Pj
PSP°C,C7JC-C7 C† PīPµC7JPµC7JP°C...C†PSPeC† PSP° Cl'C†P»CHP±P°PeC,P°Pj 500 PjPi;

1 C_„P»P°PePsPS 10 PjP» PjC-ClC,PeC,CH: C†PμC_„C,C₇C-P°PeCl†PsPS PSP°C,C₇C-CH Cr
PiPμC₇PμC₇P°C...CrPSPeCr PSP° C†PμC_„C,C₇C-P°PeCl†PsPS 500 PjPi, ClCrP»CHP±P°PeC,P°Pj
PSP°C,C₇C-CH Cr PiPμC₇PμC₇P°C...CrPSPeCr PSP° ClCrP»CHP±P°PeC,P°Pj 250 PjPi.

P-C-PeP°CTĢĆĤCHPeP° C,,PsCTĢPjP°.B PĥPsCTĢPsC€PsPe PrP»CĬB CTĢPsP·C‡PëPSCř PrP»CĬ
C-PSBTTMC''PeC†C-P№.

PhCl'PSPsPIPSC- C,,C-P·PëPePs-C...C-PjC-C#PSC- PIP»P°Cl'C,PëPIPsCl'C,C-: P±C-P»PëPNø, P±P»C-PrPs-P¶PsPIC,PëPNø/PeCḡPuPjPsPIPëPNø PeCḡPëCl'C,P°P»C-C#PSPëPNø, PjP°P»Ps PiC-PiCḡPsCl'PePsPïC-C#PSPëPNø PïPsCḡPsC€PsPe.

$$\mathbf{P} \nrightarrow \mathbf{P}^{\circ} \mathbf{C} \mathbf{F} \mathbf{P} \mathbf{j} \mathbf{P}^{\circ} \mathbf{P} \mathbf{e} \mathbf{P} \mathbf{s} \mathbf{C}, \mathbf{P} \mu \mathbf{C} \mathbf{F} \mathbf{P}^{\circ} \mathbf{P} \mathbf{i} \mathbf{P} \mu \mathbf{P} \mathbf{i} \mathbf{C}, \mathbf{P} \mathbf{e} \mathbf{C} \nmid \mathbf{P} \mathbf{S} \mathbf{P}^{\circ} \mathbf{P} \mathbf{i} \mathbf{C} \mathbf{F} \mathbf{C} \mathbf{r} \mathbf{P} \mathbf{i} \mathbf{P}^{\circ}.$$

PhPSC, PëP±P°PeC, PμCḤC-P°P»CḤPSC- P·P°CÍPsP±Pë PrP»CÍ CÍPëCÍC, PμPjPSPsPiPs
P·P°CÍC, PsCÍCÍPIP°PSPSCÍ. P|PμC,,C,CḤC-P°PeCÍPsPS, PePsPjP±C-PSP°C†C-C—. PÿCḤPμC,CÍ
PiPμPSPμCḤP°C†C-CÍ C†PμC,,P°P»PsCÍPiPsCḤPëPSC-PI. PľPsPr PhPÿPI J01D D54.

PαP°CΠPjP°PePsP»PsPiC-C≠PSC- PIP»P°CΓC,PëPIPsCΓC,C-.

$$P \propto P^\circ C \bar{h} P_i P^\circ P_e P_s P_\tau P_{\ddot{e}} P S P^\circ P_i C - P_e P^\circ.$$

$\text{P}\ddot{\text{Y}}\text{C}\dot{\text{r}}\text{P}\gg\text{CH}\text{P}\pm\text{P}^{\circ}\text{P}\text{eC},\text{P}\text{sPjP}^{\circ}\text{P}\text{eC}\dot{\text{I}}' - \text{P}\text{eP}\text{sPjP}\pm\text{C}-\text{P}\text{S}\text{P}\text{sP}\text{I}\text{P}^{\circ}\text{P}\text{S}\text{P}\ddot{\text{e}}\text{P}\text{N}\text{z}$ $\text{P}\ddot{\text{i}}\text{C}\dot{\text{H}}\text{P}_{\mu}\text{P}\ddot{\text{i}}\text{P}^{\circ}\text{C}\dot{\text{H}}\text{P}^{\circ}\text{C},,$ $\text{C}\%_{\text{O}}\text{P}\text{s}$
 $\text{PjC}-\text{C}\dot{\text{I}}'\text{C},\text{P}\ddot{\text{e}}\text{C},\text{C}\dot{\text{H}}:$

- C†PμC,,C,CTHC-P°PeC†PsPS (C†PμC,,P°P»PsC†PīPsCTHPēPS C,CTHPμC,CHbPsPiPs PīPsPePsP»C-PSPSC†), C†PePēPNē PjP°C" CēPēCTHPsPePēPNē C†PīPμPeC,CTH PrC-C— C%PsPrPs C†C†C,P»PēPIPēC... PjC-PeCTHPsPsCTHPiP°PSC-P·PjC-PI C† C†C,P°PrC-C— P°PeC,PēPIPSPsC— PjC†P»CHbC,PēPīP»C-PeP°C†C-C— CēP»C†C...PsPj PīCTHPēPiPSC-C†PμPSPSC† P±C-PsC†PēPSC,PμP·C† PjC†PePsPīPμPīC,PēPrC† PeP»C-C,PēPSPSPsC— PjPμPjP±CTHP°PSPē;

- C†C†P»CHbP±P°PeC,P°Pj - C" PSPμPsP±PsCTHPsC,PSPēPj C-PSPiC-P±C-C,PsCTHPsPj P±C-P»CHbCēPsC†C,C- PsC†PSPsPIPSPēC... P±PμC,P°-P»P°PeC,P°PjP°P·, C%Ps PīCTHPsPrC†PeC†CTHC,CHbC†C† PīPμPSC-C†PēP»C-PS-CTHPμP·PēC†C,PμPSC,PSPēPjPē PjC-PeCTHPsPsCTHPiP°PSC-P·PjP°PjPē. P' C-PS C†PēPSPēC,CHb P·PSP°C†PSC† P°PSC,PēP±P°PeC,PμCTHC-P°P»CHbPSC† PrC-CTH P»PēCēPμ C%PsPrPs *Neisseriaceae*, *Acinetobacter calcoaceticus*, *Bacteroides spp.*, *Branhamella catarrhalis* *Pseudomonas cepacia*. PŸC†P»CHbP±P°PeC,P°Pj C†PēPSPμCTHPiC-C†PSPs PIP·P°C" PjPsPrC-C" P· PīPμPSC-C†PēP»C-PSP°PjPē C,P° C†PμC,,P°P»PsC†PīPsCTHPēPSP°PjPē, P° C,P°PePsP¶ P·PiB™ C†P·C†C",CHbC†C† P· PrPμC†PePēPjPē P±C-P»PeP°PjPē, C%Ps C-PSP°PeC,PēPIC†CTHC,CHb PīPμPSC-C†PēP»C-PS, C,PsPjC† PrPμC†PeC- C†C†C,P»PēPIC- CēC,P°PjPē PīCTHPsC†PIP»C†CTHC,CHb PīC-PrPIPēC%PμPSC†B C†C†C,P»PēPIC-C†C,CHb PrPs PePsPjP±C-PSP°C†C-C— PīPsCTHC-PIPSC†PSPs P· PjPsPSPsPīCTHPμPīP°CTHP°C,PsPj P±PμC,P°- P»P°PeC,P°PjPSPsPiPs P°PSC,PēP±C-PsC,PēPeP°.

PŸC†P»CHbP±P°PeC,P°Pj P°PeC,PēPIPSPēPNē C%PsPrPs (PIPeP»CTHC†P°CTHC†Pē P±PμC,P°- P»P°PeC,P°PjP°P·PsPīCTHPsPrC†PeC†CTHC†C- CTHPμP·PēC†C,PμPSC,PSC- CēC,P°PjPē):

- PiCTHP°PjPīPsP·PēC,PēPIPSPēC... (P°PμCTHPsP±C-PI): *B. Staphylococcus aureus* (PjPμC,PēC†PēP»C-PSC†C†C,P»PēPIC- CēC,P°PjPē), PePsP°PīC†P»P°P·Ps-PSPμPiP°C,PēPIPSC- C†C,P°C,,C-P»PsPePsPePē, *Streptococcus pyogenes* (P±PμC,P°-PiPμPjPsP»C-C,PēC†PSPēPNē, PīCTHC†PīPē A), *Streptococcus agalactiae* (P±PμC,P°-PiPμPjPsP»C-C,PēC†PSPēPNē, PīCTHC†PīPē P'), P±PμC,P°-PiPμPjPsP»C-C,PēC†PSC- C†C,CTHPμPīC,PsPePsPePē (PeCTHC-Pj PīCTHC†Pī A, B), *Streptococcus viridans*, *Streptococcus CTHPiPμPēC,PsPīC-P°Pμ*. PkPμPsP±C...C-PrPSPs PīCTHP°C...PsPIC†PIP°C,Pē, C%Ps PjPμC,PēC†PēP»C-PSC†C,C-PNēPeC- CēC,P°PjPē *Staphylococcus spp.*, P° C,P°PePsP¶ *Enterococcus faecalis*, *Enterococcus faecium*, *Listeria monocytogenes* CTHPμP·PēC†C,PμPSC,PSC- PrPs C†PμC,,P°P»PsC†PīPsCTHPēPSC-PI, C† C,PsPjC† C†PēC†P»C- PrPs C†PμC,,C,CTHC-P°PeC†PsPSC†;

- PiCTHP°PjPSPμPiP°C,PēPIPSPēC... (P°PμCTHPsP±C-PI): *Aeromonas hydrophila*, *Alcaligenes faecalis*, *Alcaligenes odorans*, P°P»PeP°P»C-PiPμPSPsPiPsPrC-P±PSC- P±P°PeC,PμCTHC-C—, *Citrobacter diversus* (C† C,PsPjC† C†PēC†P»C- PŸ. *amalonaticus*), *Citrobacter freundii*, *Escherichia coli*, *Enterobacter aerogenes*, *Enterobacter cloacae*, *Enterobacter spp.* B (C-PSCēC-), *Haemophilus ducreyi*, *Haemophilus influenzae*, *Haemophilus parainfluenzae*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Moraxella catarrhalis* B (CTHP°PSC-CēPμ PSP°P·PēPIP°P»P°C†C† *Branhamella catarrhalis*), *Moraxella osloensis*, *Moraxella spp.* (C-PSCēC-), *Morganella morganii*, *Neisseria gonorrhoeae*, *Neisseria meningitidis*, *Plesiomonas shigelloides*, *Proteus mirabilis*, *Proteus penneri*, *Proteus vulgaris*, *Pseudomonas fluorescens*, *Pseudomonas spp.* (C-PSCēC-), *Providentia rettgeri*, *Providentia spp.* (C-PSCēC-), *Salmonella typhi*, *Salmonella spp.* (PSPμC,PēC,,PsC—PrPSC-), *Serratia marcescens*, *Serratia sCTHTJ*. (iPSCēC-), *Shigella spp.*, *Vibrio spp.*, *Yersinia enterocolitica*, *Yersinia spp.* (C-PSCēC-).

PŸC†P»CHbP±P°PeC,PsPjP°PeC†, C†Pe C- C†PμC,,C,CTHC-P°PeC†PsPS, P·P°C†C,PsC†PsPIC†CTHC,CHb PrP»C† P»C-PeC†PIP°PSPSC† PīPsPSPsCTHPμC— C,P° C†PēC,,C-P»C-C†C†, PsC†PeC-P»CHbPePē *Treponema pallidum* C†C†C,P»PēPIP° PrPs C†PμC,,C,CTHC-P°PeC†PsPSC† *in vitro* C- PI PμPeC†PīPμCTHPēPjPμPSC,P°C... PSP° C,PIP°CTHPēPSP°C..., P° PeP»C-PSC-C†PSC- PIPēPīCTHPsP±C†PIP°PSPSC† PīPsPeP°P·C†CTHC,CHb,

C%₀Ps C†PμC,,C,CTHC-P°PeCΓ΄PsPS PjP°C” PIPëCΓ΄PsPeCΓ PμC,,PμPeC,PëPIPSC-CΓ΄C,CH C%₀PsPrPs PïPμCTHPIPëPSPSPsPiPs C,P° PIC,PsCTHPëPSPSPsPiPs CΓ΄PëC,,C-P»C-CΓ΄CΓ;

- P°PSP°PμCTHPsP±C-PI: *Bacteroides spp.* (CΓ C, C±. PrPμCΠPeC- CëC,P°PjPë *B. fragilis.*), *Clostridium sCTHC*. (PeCTHC-Pj PŸ. *difficile*), *Fusobacterium spp.* (P·P° PIPëPSCΠC,PePsPj *F. mortiferum* C,P° *F. varium*), *Gaffkia anaerobica* (CTHP°PSC-CëPμ PSP°P·PëPIP°P»P°CΓ΄CΠ *Peptococcus*), *Peptostreptococcus spp.*

PμCTHPëPjC-C,PeP°. P°P°PiP°C,Ps CëC,P°PjC-PI P±PμC,P°- P»P°PeC,P°PjP°P·PsCΓC,PIPsCTHCPIP°P»CHPSPëC... *Bacteroides spp.*, P·PsPeCTHPμPjP° P’. *fragilis*, P° C,P°PePsP¶ *Clostridium difficile*, CΓ΄C,C-PNëPeC- PrPs C†PμC,,C,CTHC-P°PeCΓ΄PsPSCΓ.

PkCΓ΄PeC-P»CHPePë PsCΓ΄PSPsPIPSPsCTH PrC-CTHC±PsCTH CTHPμC±PsPIPëPSPsCTH PïCTHPμPiP°CTHP°C,CΓ C” C†PμC,,C,CTHC-P°PeCΓ΄PsPS, C±CΓC,P»PëPIC-CΓ΄C,CH PrPs PŸCΓP»CHP±P°PeC,P°PjCΓ PIPëP·PSP°C±P°CTHC,CH P·P° C±CΓC,P»PëPIC-CΓ΄C,CTH PrPs C†PμC,,C,CTHC-P°PeCΓ΄PsPSCΓ, CΠPeCΓ PjPsP¶PSP° PIPëP·PSP°C±P°C,Pë PrPëCΓ΄PePs- PrPëC,,CΓP·C-PNëPSPëPj PjPμC,PsPrPsPj

P°P±Ps PjPμC,PsPrPsPj CΓ΄PμCTHC-PNëPSPëC... CTHPsP·PIPμPrPμPSCH PSP° P°PiP°CTHC- C±Pë P±CΓP»CHPNëPsPSC-.

PαP°CTHPjP°PePsPeC-PSPμC,PëPeP°.

PαP°CTHPjP°PePsPeC-PSPμC,PëPeP° C†PμC,,C,CTHC-P°PeCΓ΄PsPSCΓ PjP°C” PSPμP»C-PSC-PNëPSPëPNë C...P°CTHP°PeC,PμCTH.

PJCΓC- PsCΓ΄PSPsPIPSC-B C,,P°CTHPjP°PePsPeC-PSPμC,PëC±PSC- PïP°CTHP°PjPμC,CTHPë, P·P° PIPëPSCΠC,PePsPj PïPμCTHC-PsPrCΓ PSP°PïC-PIPIPëPIPμPrPμPSPSCΠ (PŸ1/2), C” PrPsP·PsP·P°P»PμP¶PSPëPjPë. P’CΓ΄PjPsPeC,CΓPIP°PSPSCΠ: PïC-CΓP»CΠ PIPSCΓC,CTHC-CëPSCHsPjPbT[™] CΠP·PsPIPSPiPs PIPμPrPμPSPSCΠ PjP°PeCΓ΄PëPjP°P»CHPSP° PePsPSC†PμPSC,CTHP°C†C-CΠ PrPsCΓ΄CΠPiP°C”C,CHCΓ΄CΠ C±PμCTHPμP· 2-3 PiPsPrPëPSPë. P’C-PsPrPsCΓ΄C,CΓPïPSC-CΓ΄C,CH PïCTHPμPiP°CTHP°C,CΓ PïC-CΓP»CΠ PIPSCΓC,CTHC-CëPSCHsPj’CΠP·PsPIPsPiPs PIPμPrPμPSPSCΠ CΓ΄C,P°PSPsPIPëC,CH 100 % (PïPs C†PμC,,C,CTHC-P°PeCΓ΄PsPSCΓ).

PμC-CΓP»CΠ PIPμPrPμPSPSCΠ CΓ PrPsP·C- 1-2 Pi C†PμC,,C,CTHC-P°PeCΓ΄PsPS PrPsP±CTHPμ PïCTHPsPSPëPeP°C” CΓ C,PeP°PSPëPSPë C,P° CTHC-PrPëPSPë PsCTHPiP°PSC-P·PjCΓ. PμC-CΓP»CΠ PIPSCΓC,CTHC-CëPSCHsPjPμPSPSPsPiPs P·P°CΓ΄C,PsCΓ΄CΓPIP°PSPSCΠ C†PμC,,C,CTHC-P°PeCΓ΄PsPS CëPIPëPrPePs PïCTHPsPSPëPeP°C” CΓ CΓPïPëPSPSPsPjPsP·PePsPICΓ CTHC-PrPëPSCΓ, PrPμ P±P°PeC,PμCTHPëC†PëPrPSC- PePsPSC†PμPSC,CTHP°C†C-C— C%₀PsPrPs C±CΓC,P»PëPIPëC... PjC-PeCTHPsPsCTHPiP°PSC-P·PjC-PI P·P±PμCTHC-PiP°CTHC,CHCΓ΄CΠ PïCTHPsC,CΠPiPsPj 24 PiPsPrPëPS.

PiPμC,,C,CTHC-P°PeCΓ΄PsPS PsP±PsCTHPsC,PSPs P·PI’CΠP·CΓC”C,CHCΓ΄CΠ P· P°P»CHP±CΓPjC-PSPsPj. P—P°PIPrCΠPePë PjPμPSCëC-PNë PePsPSC†PμPSC,CTHP°C†C-C— P°P»CHP±CΓPjC-PSCΓ CΓ C,PeP°PSPëPSPSC-PNë CTHC-PrPëPSC- PrPsP»CΠ PIC-P»CHPSPsPiPs C†PμC,,C,CTHC-P°PeCΓ΄PsPSCΓ PI PSC-PNë PIPëC%₀P°, PSC-P¶ CΓ PïP»P°P·PjC- PeCTHPsPIC-. PñP°PeCΓ΄PëPjP°P»CHPSP° PePsPSC†PμPSC,CTHP°C†C-CΠ (PŸmax) CΓ CΓPïPëPSPSPsPjPsP·PePsPIC-PNë CTHC-PrPëPSC- PrPsCΓ΄CΠPiP°C”C,CHCΓ΄CΠ PïCTHPëP±P»PëP·PSPs C±PμCTHPμP· 4 PiPsPrPëPSPë PïC-CΓP»CΠ PIPSCΓC,CTHC-CëPSCHsPjPμPSPSPsPiPs PIPμPrPμPSPSCΠ C- CΓ΄C,P°PSPsPIPëC,CH CΓ CΓPμCTHPμPrPSCHsPjCΓ 18 PjPi/P». PμCTHPë P±P°PeC,PμCTHC-P°P»CHPSPsPjCΓ

PjPμPSC-PSPiC-C,C- CΓPμCḡPμPrPSCḡ PePsPSC†PμPSC,CḡP°C†C-Cḡ
C†PμC,,C,CḡC-P°PeCΓPsPSCr CΓ CΓPiPēPSPSPsPjPsP·PePsPIC-PNē CḡC-PrPēPSC-
CΓC,P°PSPsPiPēC,CH 17 % PIC-Pr PePsPSC†PμPSC,CḡP°C†C-C— CΓ PiP»P°P·PjC- PeCḡPsPIC-,
PiCḡPē P°CΓPμPiC,PēC†PSPsPjCΓ PjPμPSC-PSPiC-C,C- - PiCḡPēP±P»PēP·PSPs 4 %. PJ
C...PIPsCḡPēC... PSP° PjPμPSC-PSPiC-C, PrPsCḡPsCΓP»PēC... C†PμCḡPμP·

2-24 PiPsPrPēPSPē PiC-CΓP»Cḡ PIPiPμPrPμPSPSCḡ PrPsP·Pē 50 PjPi/PePi PjP°CΓPē C,C-P»P°
PePsPSC†PμPSC,CḡP°C†C-C— C†PμC,,C,CḡC-P°PeCΓPsPSCr CΓ CΓPiPēPSPSPsPjPsP·PePsPIC-PNē
CḡC-PrPēPSC- CΓ P±P°PiP°C,Ps CḡP°P·C-PI PiPμCḡPμPiPēC%oCΓCḡC,CH
PjC-PSC-PjP°P»CHPSC- PiCḡPēPiPSC-C†CΓPiP°P»CHPSC- PePsPSC†PμPSC,CḡP°C†C-C—
PrP»Cḡ PSP°PNēPiPsCēPēCḡPμPSC-CēPēC... P·P±CΓPrPSPēPeC-PI PjPμPSC-PSPiC-C,CΓ.

PiPμC,,C,CḡC-P°PeCΓPsPS PiCḡPsC...PsPrPēC,CH PeCḡC-P·CH PiP»P°C†PμPSC,P°CḡPSPēPNē
P±P°Cḡ'C"Cḡ C- PI PjP°P»PēC... PePsPSC†PμPSC,CḡP°C†C-CḡC... PiCḡPsPSPēPeP°C" CΓ
PiCḡCΓPrPSPμ PjPsP»PsPePs.

PiPμC,,C,CḡC-P°PeCΓPsPS PSPμ PiC-PrPrP°C"C,CHCΓCḡ CΓPēCΓC,PμPjPSPsPjCΓ
PjPμC,P°P±PsP»C-P·PjCΓ, P° PiPμCḡPμC,PIPsCḡCḡC"C,CHCΓCḡ PSP° PSPμP°PeC,PēPiPSC-
PjPμC,P°P±PsP»C-C,Pē PiC-Pr PrC-C"Cḡ PePēCēPePsPIPsC— C,,P»PsCḡPē.

50-60 %B C†PμC,,C,CḡC-P°PeCΓPsPSCr PIPēPIPsPrPēC,CHCΓCḡ CΓ PSPμP·PjC-PSPμPSPsPjCΓ
PIPēPiP»CḡPrC- P· CΓPμC†PμCḡ, P° 40-50 % Bḡ" CΓ PSPμP·PjC-PSPμPSPsPjCΓ PIPēPiP»CḡPrC- P·
P¶PsPIC†Cḡ. PμPμCḡC-PsPr PSP°PiC-PIPIPēPIPμPrPμPSPSCḡ C†PμC,,C,CḡC-P°PeCΓPsPSCr CΓ
PrPsCḡPsCΓP»PēC... CΓC,P°PSPsPiPēC,CHB PiCḡPēP±P»PēP·PSPs 8 PiPsPrPēPS.
P—P°PiP°P»CHPSPēPNē PeP»C-CḡPμPSCΓ CΓ PiP»P°P·PjC- PeCḡPsPIC- CΓC,P°PSPsPiPēC,CH
10-22 PjP»/C...PI, PSPēCḡPePsPiPēPNē PeP»C-CḡPμPSCΓ Bḡ" PIC-Pr 5 PrPs 12 PjP»/C...PI. PJ
PSPsPIPsPSP°CḡPsPrP¶PμPSPēC... PrC-C,PμPNē PSPēCḡPeP°PjPē PIPēPIPsPrPēC,CHCΓCḡB
PiCḡPēP±P»PēP·PSPs 70 % PrPsP·Pē. PJ PiCḡCΓPrPSPēC... PrC-C,PμPNē CΓ PiPμCḡCēC- 8
PrPSC-PI P¶PēC,C,Cḡ, P° C,P°PePsP¶ CΓ P»CḡPrPμPNē P»C-C,PSCHPsPiPs PIC-PeCΓ (PIC-Pr 75
CḡPsPeC-PI) PiPμCḡC-PsPr PSP°PiC-PIPIPēPIPμPrPμPSPSCḡ PI CΓPμCḡPμPrPSCḡPsPjCΓ CΓ

2 CḡP°P·Pē PrPsPICēPēPNē. PJ C...PIPsCḡPēC... C-P· PiPsCḡCΓCēPμPSPSCḡPj C,,CΓPSPeC†C-C—
PSPēCḡPsPe P°P±Ps PiPμC†C-PSPePē C,,P°CḡPjP°PePsPeC-PSPμC,PēPeP° PiCḡPμPiP°CḡP°C,CΓ
P·PjC-PSCH"C,CHCΓCḡ PSPμP·PSP°C†PSPs, PIC-PrP·PSP°C†P°C"C,CHCΓCḡ P»PēCēPμ
PSPμPiPμP»PēPePμ P·P±C-P»CHCēPμPSPSCḡ PiPμCḡC-PsPrCΓ
PSP°PiC-PIPIPēPIPμPrPμPSPSCḡ. PμCḡPē PiPsCḡCΓCēPμPSPSCḡC... C,C-P»CHPePē
C,,CΓPSPeC†C-C— PSPēCḡPsPe P·P±C-P»CHCēCΓC"C,CHCΓCḡ PrPsP»CḡB
C†PμC,,C,CḡC-P°PeCΓPsPSCr, PIPēPIPμPrPμPSPsPiPs P· P¶PsPIC†Cḡ, PiCḡPē
PiPsCḡCΓCēPμPSPSCḡC... C,C-P»CHPePē C,,CΓPSPeC†C-C— PiPμC†C-PSPePē Bḡ" PrPsP»Cḡ
C†PμC,,C,CḡC-P°PeCΓPsPSCr, PIPēPIPμPrPμPSPsPiPs PSPēCḡPeP°PjPē.

PμP»C-PSC-C†PSC- C...P°CḡP°PeC,PμCḡPēCΓC,PēPePē.

PμPsPeP°P·P°PSPSCḡ.

-B P†PSC,,PμPeC†C-C— PSPēP¶PSC-C... PIC-PrPrC-P»C-PI PrPēC...P°P»CHPSPēC...
CēP»CḡC...C-PI;

-B PiPsCΓC,CḡPēPNē P±P°PeC,PμCḡC-P°P»CHPSPēPNē PsC,PēC, CΓPμCḡPμPrPSCḡPsPiPs
PICrC...P°;

- B C-PSC,,PμPeC†C-C— Pj'ClΠPePëC... C,PeP°PSPëPS, C€PeC-CḡPë;
- B C-PSC,,PμPeC†C-C— PSPëCḡPsPe C- CΓPμC‡PsPIPëPIC-PrPSPëC... C€P»CΠC...C-PI;
- B C-PSC,,PμPeC†C-C— PeC-CΓC,PsPe, CΓCṛPiP»PsP±C-PI;
- B CΓPμPïC,PëC†PμPjC-CΠ;
- B C-PSC,,PμPeC†C-C— PsCḡPiP°PSC-PI C‡PμCḡPμPIPSPsC— PïPsCḡPsP¶PSPëPSPëB
(PïPμCḡPëC,PsPSC-C,, C-PSC,,PμPeC†C-C— P¶PsPIC‡PsPIPëPIC-PrPSPëC... C€P»CΠC...C-PI C-
C,CḡP°PIPSPsPiPsB
- B B B C,CḡP°PeC,Cṛ);
- B PjPμPSC-PSPiC-C,;
- B PiPsPSPsCḡPμCΠ;
- B PïCḡPsC,,C-P»P°PeC,PëPeP° C-PSC,,PμPeC†C-PNë Cṛ C...C-CḡCṛCḡPiC-C—.

PμCḡPsC,PëPïPsPeP°P·P°PSPSCΠ.

PμC-PrPIPëC‰PμPSP° C‡CṛC,P»PëPIC-CΓC,CH PrPs C†PμC,,C,CḡC-P°PeCΓPsPSCṛ P°P±Ps
P±CṛPrCH-CΠPePsPiPs C-PSC€PsPiPs C†PμC,,P°P»PsCΓPïPsCḡPëPSCṛ. PḵP°CΠPIPSC-CΓC,CH PI
P°PSP°PjPSPμP·C- C,CΠP¶PePëC... CḡPμP°PeC†C-PNë PiC-PïPμCḡC‡CṛC,P»PëPIPsCΓC,C-
(PSP°PïCḡPëPeP»P°Pr, P°PSP°C,,C-P»P°PeC,PëC‡PSPëC... CḡPμP°PeC†C-PNë) PrPs P±CṛPrCH-
CΠPePsPiPs C-PSC€PsPiPs C,PëPïCṛ P±PμC,P°-P»P°PeC,P°PjPSPëC...
P°PSC,PëP±P°PeC,PμCḡC-P°P»CHPSPëC... P·P°CΓPsP±C-PI (PïPμPSC-C†PëP»C-PSC-PI,
PjPsPSPsP±P°PeC,P°PjC-PI C,P° PeP°CḡP±P°PïPμPSPμPjC-PI); PSPëCḡPePsPIP° C,P°/P°P±Ps
PïPμC‡C-PSPePsPIP° PSPμPrPsCΓC,P°C,PSC-CΓC,CH; P·P°C...PIPsCḡCḡPIP°PSPSCΠ
C,CḡP°PIPSPsPiPs C,CḡP°PeC,Cṛ PI P°PSP°PjPSPμP·C-, PsCΓPsP±P»PëPIPs
PSPμCΓPïPμC†PëC,,C-C‡PSPëPNë PIPëCḡP°P·PePsPIPëPNë PePsP»C-C,, PμPSC,PμCḡPëC, P°P±Ps
PePsP»C-C,, PïPsPIBḡ™ CΠP·P°PSPëPNë C-P· P·P°CΓC,PsCΓCṛPIP°PSPSCΠPj
P°PSC,PëP±P°PeC,PμCḡC-P°P»CHPSPëC... PïCḡPμPïP°CḡP°C,C-PI.

PïPμC,,C,CḡC-P°PeCΓPsPS PïCḡPsC,PëPïPsPeP°P·P°PSPëPNë:

PḵPμPrPsPSPsC€PμPSPëPj PSPsPIPsPSP°CḡPsPrP¶PμPSPëPj PIC-PePsPj ≤ 41 C,PëP¶PrPμPSCḡ
C-P· CṛCḡP°C...CṛPIP°PSPSCΠPj CΓC,CḡPsPeCṛ PIPSCṛC,CḡC-C€PSCḡPsCṛC,CḡPsP±PSPsPiPs
CḡPsP·PIPëC,PeCṛ (PiPμCΓC,P°C†C-PNëPSPëPNë PIC-Pe PIC-Pe PïC-CΓP»CΠ
PSP°CḡPsPrP¶PμPSPSCΠ)*

P°PsPSPsC€PμPSPëPj PSPsPIPsPSP°CḡPsPrP¶PμPSPëPj (PIC-PePsPj ≤ 28 PrPSC-PI):

- C-P· PiC-PïPμCḡP±C-P»C-CḡCṛP±C-PSPμPjC-C”Cḡ, P¶PsPIC,CΠPSPëC†PμCḡ,
PiC-PïPsP°P»CHP±CṛPjC-PSPμPjC-C”Cḡ P°P±Ps P°C†PëPrPsP·PsPj, PsCΓPeC-P»CHPePë PïCḡPë
C,P°PePëC... CΓC,P°PSP°C... P·PIBḡ™ CΠP·CṛPIP°PSPSCΠ P±C-P»C-CḡCṛP±C-PSCṛ,
C-PjPsPIC-CḡPSPs, PiPsCḡCṛC€PμPSPμ*

- CΠPeC- PïPsC,CḡPμP±CṛCḡC,CH (P°P±Ps PsC‡C-PeCṛC”C,CHCΓCΠ, C‰Ps
PïPsC,CḡPμP±CṛPIP°C,PëPjCṛC,CH) PIPSCṛC,CḡC-C€PSCḡPsPIPμPSPSPsPiPs

PIPIPμPrPμPSPSCΠ ΠiCηPμPīP°CηP°C,C-PI PeP°P»CHC†C-Cη P°P±Ps C-PSC,,CfP·C-PNē
PeP°P»CHC†C-PNēPIPJc-CfPSPēC... CηPsP·C†PēPSC-PI, PsCfPeC-P»CHPePē C-CfPSCrC”
CηPēP·PēPe CfC,PIPsCηPμPSPSCΠ ΠiCηPμC†PēPīC-C,P°C,C-PI PeP°P»CHC†C-C”PIPsC—
CfPsP»C- C†PμC,,C,CηC-P°PeCfPsPSCr (PrPēPI. CηPsP·PrC-P»Pē B«PhCfPsP±P»PēPIPsCfC,C-
P·P°CfC,PsCfCfPIP°PSPSCΠB» C,P° B«PμPsP±C-C†PSC- CηPμP°PeC†C-C—B»).

* PJ PrPsCfP»C-PrP¶PμPSPSCΠC... C-n vitro P±CfP»Ps PīPsPeP°P·P°PSPs, C%Ps
C†PμC,,C,CηC-P°PeCfPsPS PJPsP¶Pμ PIPēC,C-CfPSCΠC,Pē P±C-P»C-CηCfP±C-PS P·C-
P·PīBη™ CΠP·PeCf P· P°P»CHP±CfPJc-PSPsPJ CfPēCηPsPIP°C,PePē PeCηPsPIC-, C%Ps
PīCηPēP·PIPsPrPēC,CH PrPs PJPsP¶P»PēPIPsPiPs CηPēP·PēPeCf CηPsP·PIPēC,PeCf
P±C-P»C-CηCfP±C-PSPsPIPsC— PμPSC†PμC,,P°P»PsPīP°C,C-C— Cf C,P°PePēC...
PīP°C†C-C”PSC,C-PI.

PμPμCηPμPr PIPSCrC,CηC-CēPSCHPsPjBη™ CΠP·PsPIPēPJ PIPIPμPrPμPSPSCΠPJ
C†PμC,,C,CηC-P°PeCfPsPSCr CfP»C-Pr PsP±PsPīBη™ CΠP·PePsIPs PIPēPeP»CηC†PēC,Pē
PSP°CΠIPSC-CfC,CH PīCηPsC,PēPīPsPeP°P·P°PSCH PrPs P·P°CfC,PsCfCfPIP°PSPSCΠ
P»C-PrPsPeP°C—PSCr, CΠPeC%Ps PNēPsPiPs P·P°CfC,PsCfPsPICrCηC,CH Cf CΠPePsCfC,C-
CηPsP·C†PēPSPSPēPeP° (PrPēPI. CηPsP·PrC-P» B«PhCfPsP±P»PēPIPsCfC,C-
P·P°CfC,PsCfCfPIP°PSPSCΠB»). P”PēPI. C-PSCfC,CηCfPeC†C-Cη PrP»CΠ PJPμPrPēC†PSPsPiPs
P·P°CfC,PsCfCfPIP°PSPSCΠ P»C-PrPsPeP°C—PSCr, PsCfPsP±P»PēPIPs
PīCηPsC,PēPīPsPeP°P·P°PSPSCΠ.

P PsP·C†PēPSPē C†PμC,,C,CηC-P°PeCfPsPSCr, C%Ps PJc-CfC,CΠC,CH P»C-PrPsPeP°C—PS,
PSC-PePsP»Pē PSPμ CfP»C-Pr PIPIPsPrPēC,Pē PIPSCrC,CηC-CēPSCHPsPIPμPSPSPs.

**P·P·P°C”PjPsPrC-CΠ P· C-PSCēPēPjPē P»C-PeP°CηCfCHPePēPjPē P·P°CfPsP±P°PjPē C,P°
C-PSCēC- PIPēPrPē PIP·P°C”PjPsPrC-PNē.**

PkPμ PJPsP¶PSP° PIPēPePsCηPēCfC,PsCfC,PsPICrPIP°C,Pē CηPsP·C†PēPSPSPēPePē, CΠPeC-
PJc-CfC,CΠC,CH PeP°P»CHC†C-PNē, C,P°PeC- CΠPe CηPsP·C†PēPS P C-PSPiPμCηP° P°P±Ps
CηPsP·C†PēPS P”P°CηC,PjP°PSP°, PrP»CΠ CηPsP·C†PēPSPμPSPSCΠ
C†PμC,,C,CηC-P°PeCfPsPSCr Cf C,,P»P°PePsPSP°C... P°P±Ps PrP»CΠ CηPsP·PIPμPrPμPSPSCΠ
PIC-PrPSPsPIP»PμPSPsPiPs CηPsP·C†PēPSCr PrP»CΠ PIPSCrC,CηC-CēPSCHPsPIPμPSPSPsPiPs
PIPIPμPrPμPSPSCΠ Cf P·PīBη™ CΠP·PeCf P· PIC-CηPsPiC-PrPSC-CfC,Cη CfC,PIPsCηPμPSPSCΠ
PīCηPμC†PēPīC-C,P°C,C-PI PeP°P»CHC†C-C”PIPēC... CfPsP»PμPNē
C†PμC,,C,CηC-P°PeCfPsPSCr.B P’PēPSPēPePSPμPSPSCΠ ΠiCηPμC†PēPīC-C,P°C,C-PI
PeP°P»CHC†C-C”PIPēC... CfPsP»PμPNē C†PμC,,C,CηC-P°PeCfPsPSCr C,P°PePsP¶ PJPsP¶Pμ
PIC-PrP±CfPIP°C,PēCfCΠ PīCηPē P·PJc-CēCfPIP°PSPSC- C†PμC,,C,CηC-P°PeCfPsPSCr P·
CηPsP·C†PēPSP°PjPē, CΠPeC- PJc-CfC,CΠC,CH PeP°P»CHC†C-PNē PI PsPrPSC-PNē
C-PSC,,CfP·C-PNēPSC-PNē CfPēCfC,PμPJc- PrP»CΠ PIPSCrC,CηC-CēPSCHPsPIPμPSPSPsPiPs
PIPIPμPrPμPSPSCΠ. PīPμC,,C,CηC-P°PeCfPsPS PSPμ PJPsP¶PSP° PsPrPSPsC†P°CfPSPs
PIPIPsPrPēC,Pē PIPSCrC,CηC-CēPSCHPsPIPμPSPSPs P· CηPsP·C†PēPSP°PjPē, CΠPeC-
PJc-CfC,CΠC,CH PeP°P»CHC†C-PNē, Cf C,PsPjCf C†PēCfP»C- C-P·
PeP°P»CHC†C-PNēPIPJc-CfPSPēPjPē CηPsP·C†PēPSP°PjPē PrP»CΠ C,CηPēPIP°P»PēC...
C-PSC,,CfP·C-PNē, C,P°PePēPjPē CΠPe CηPsP·C†PēPSPē PrP»CΠ
PīP°CηPμPSC,PμCηP°P»CHPSPsPiPs C...P°CηC†CfPIP°PSPSCΠ, P·P° PrPsPīPsPjPsPiPsCη Y-
PīPsPrC-P±PSPsC— CfPēCfC,PμPjPē. PhPrPSP°Pe CηPμCēC,C- PīP°C†C-C”PSC,C-PI, PeCηC-Pj
PSPsPIPsPSP°CηPsPrP¶PμPSPēC..., C†PμC,,C,CηC-P°PeCfPsPS C,P°
PeP°P»CHC†C-PNēPIPJc-CfPSC- CηPsP·C†PēPSPē PJPsP¶PSP° PIPIPsPrPēC,Pē
PīPsCfP»C-PrPsIPSPs, PsPrPēPS PīC-CfP»CΠ PsPrPSPsPiPs, CΠPeC%Ps PJc-P¶

C-PSC,,CfP·C-CfPjPë CñPµC,PµP»CHBPSPs PñCñPsPjPëC,Pë CfPëCfC,PµPjCf CfCfPjC-CfPSPsCñ CñC-PrPëPSPsCñ. Pj PrPsCfP»C-PrP¶PµPSPSCfC... C-n *vitro* C-P·
PIPëPePsCñPëCfC,P°PSPSCfPj PñP»P·PjPë PñCfPñPsPIPëPSPSPsC— PeCñPsPIC-
PrPsCñPsCfP»PëC... C,P° PSPsPIPSPSP°CñPsPrP¶PµPSPëC... P±CfP»Ps PñPsPeP°P·P°PSPs, C%Ps
PSPsPIPSPSP°CñPsPrP¶PµPSPëPj P·P°PñCñPsP¶CfC” PñC-PrPIPëC%PµPSPëPñ CñPëP·PëPe
CfC,PIPsCñPµPSPSCf PñCñPµCfPëPñC-C,P°C,C-PI PeP°P»CHCfC-C”PIPSC— CfPsP»C-
CfPµC,,C,CñC-P°PeCfPsPSCf (PrPëPI. CñPsP·PrC-P»Pë B«PñPñPsCfC-P±
P·P°CfC,PscfCfPñP°PSPSCf C,P° PrPsP·PëB», B«PµCñPsC,PëPñPsPeP°P·P°PSPSCfB»,
B«PñCfPsP±P»PëPñPsCfC,C- P·P°CfC,PscfCfPñP°PSPSCfB», B«PµPsP±C-CfPSC-
CñPµP°PeCfC-C—B», B«PñPµCfCfPjC-CfPSC-CfC,CHB»).

PñCfPjC-CfPSPµ P·P°CfC,PscfCfPñP°PSPSCf PñCñPµPñP°CñP°C,Cf P·
PñPµCñPsCñP°P»CHBPSPëPjPë P°PSC,PëPePsP°PñCfP»CfPSC,P°PjPë PjPsP¶Pµ
PñPsCfPëP»CñPIP°C,Pë PµC,,PµPeC, PñCñPsC,Pë PIC-C,P°PjC-PSCf Pñ C,P° CñPëP·PëPe
PeCñPsPIPSC,PµCfC-. P PµPePsPjPµPSPPrCfC”C,CHCfCf CfP°CfC,Ps PñPµCñPµPIC-CñCfC,Pë
PjC-P¶PSP°CñPsPrPSPµ PSPsCñPjP°P»C-P·PsPIP°PSPµ CfPñC-PIPIC-PrPSPsCñPµPSPSCf C,P°
PSP°P»PµP¶PSPëPj CfPëPSPsPj PePsCñPµPñCfPñP°C,Pë PrPsP·Cf P°PSC,PëPIC-C,P°PjC-PSCf Pñ
CfPe PñC-Pr CfP°Cf, C,P°Pe C- PñC-CfP»Cf C,PµCñP°PñC-C— CfPµC,,C,CñC-P°PeCfPsPSPsPj
(PrPëPI. CñPsP·PrC-P» B«PµPsP±C-CfPSC- CñPµP°PeCfC-C—B»).

PñCfPSCfCñC,CH CfCfPñPµCñPµCfP»PëPIC- PrP°PSC- C%PsPrPs PñPsC,PµPSCfC-PñPSPsPñPs
PñPsCfPëP»PµPSPSCf C,PscfCfPëCfPSPsPñPs PIPñP»PëPICf P°PjC-PSPsPñP»C-PePsP·PëPrC-PI
PSP° PSPëCñPePë PñCñPë C—C... P·P°CfC,PscfCfPñP°PSPSC- CñP°P·PsPj C-P·
CfPµC,,P°P»PsCfPñPsCñPëPSP°PjPë. Pj C,P°PePëC... PIPëPñP°PrPeP°C... CfP»C-Pr
CñPµC,PµP»CHBPSPs PrPsC,CñPëPjCfPñP°C,PëCfCf CñPµPePsPjPµPSPPrP°CfC-Pñ C-P·
PjPsPSC-C,PscñPëPSPñCf CñC-PIPSCf P°PjC-PSPsPñP»C-PePsP·PëPrC-PI (C,P° C,,CfPSPeCfC-C—
PSPëCñPsPe) Cf PeP»C-PSC-CfPSC-Pñ PñCñP°PeC,PëCfC-.

PñPµC,,C,CñC-P°PeCfPsPS PSPµ PjPsP¶PSP° P·PjC-CëCfPñP°C,Pë P· P°PjCfP°PeCñPëPSPsPj,
PIP°PSPePsPjC-CfPëPSPsPj, C,,P»CñPePsPSP°P·PsP»PsPj C- P°PjC-PSPsPñP»C-PePsP·PëPrP°PjPë.

PµCñPë PsPrPSPsCfP°CfPSPsPjCf P·P°CfC,PscfCfPñP°PSPSC- PIPëCfPsPePëC... PrPsP·
CfPµC,,C,CñC-P°PeCfPsPSCf C- C,P°PePëC... CfPëP»CHBPSPsPrC-CñCfPëC...
PrC-CfCñPµC,PëPeC-PI CfPe

C,,CfCñPsCfPµPjC-Pr PñPsCñCfCñPµPSCñ C,,CfPSPeCfC-C— PSPëCñPsPe PSPµ
CfPñPsCfC,PµCñC-PñP°P»PsCfCf.

PµC-CfP»Cf PñCñPëPñPsPjCf P°P»PePsPñPsP»Cñ PsPrCñP°P·Cf PñC-CfP»Cf PñCñPëPñPsPjCf
CfPµC,,C,CñC-P°PeCfPsPSCf PSPµ CfPñPsCfC,PµCñC-PñP°P»PsCfCf PµC,,PµPeC,C-PI,
CfC...PsP¶PëC... PSP° PrC-Cñ PrPëCfCfP»CHC,,C-CñP°PjCf (C,PµC,CfCñP°PjCf).

PñPµC,,C,CñC-P°PeCfPsPS PSPµ PjC-CfC,PëC,CH N-PjPµC,PëP»C,C-PsC,PµC,CñP°P·PsP»CHBPSCf
PñCñCfPñCf, CfPeP° P± PjPsPñP»P° CfPñCñPëCfPëPSPëC,Pë
PSPµPñPµCñPµPSPsCfPëPjC-CfC,CH PµC,P°PSPsP»Cf, P° C,P°PePsP¶ PeCñPsPIPSC,PµCfC-,
PIP»P°CfC,PëPIC- PrPµCfPePëPj C-PSCëPëPj CfPµC,,P°P»PsCfPñPsCñPëPSP°Pj.

Pj PrPsCfP»C-PrP¶PµPSPSC- *in vitro* PñCñPë P·P°CfC,PscfCfPñP°PSPSC-
C...P»PsCñP°PjC,,PµPSC-PePsP»Cf Cf PePsPjP±C-PSP°CfC-C— C-P·
CfPµC,,C,CñC-P°PeCfPsPSPsPj CfPñPsCfC,PµCñC-PñP°P»PëCfCf
P°PSC,P°PñPsPSC-CfC,PëCfPSC- PµC,,PµPeC,Pë. PñP»C-PSC-CfPSP° P·PSP°CfC%C-CfC,CH
CfPëC... PrP°PSPëC... PSPµPIC-PrPsPjP°.

PİPe C- PiCḡPë P·P°CíC,PsCíCíPIP°PSPSC- PICíC-C... P±PµC,P°-P»P°PeC,P°PjPSPëC...
 P°PSC,PëP±C-PsC,PëPeC-PI, PİPsPIC-PrPsPjP»CııP»PsCíCıı PiCḡPs CíPµCḡPñPsP·PSC-
 CḡPµP°PeC†C-C— PiC-PiPµCḡC†CíC,P»PëPIPsCíC,C-, C%Ps C-PSPsPrC- PiCḡPëP·PIPsPrPëP»Pë
 PrPs P»PµC,P°P»CHpSPëC... PSP°CíP»C-PrPeC-PI (PrPëPI. CḡPsP·PrC-P» B«PıPsP±C-C†PSC-
 CḡPµP°PeC†C-C—B»). P PµP°PeC†C-C— PiC-PiPµCḡC†CíC,P»PëPIPsCíC,C- PjPsP¶CíC,CH
 C,P°PePsP¶ PiCḡPsPiCḡPµCíCíPIP°C,Pë PrPs CíPëPSPPrCḡPsPjCí PñPsCíPSC-CíP° Bḡ”
 CíPµCḡPñPsP·PSPsC— P°P»PµCḡPiC-C†PSPsC— CḡPµP°PeC†C-C—, C%Ps PjPsP¶Pµ
 PiCḡPëP·PIPµCíC,Pë PrPs C-PSC„P°CḡPeC,Cí PjC-PsPeP°CḡPrP° (PrPëPI. CḡPsP·PrC-P»
 B«PıPsP±C-C†PSC- CḡPµP°PeC†C-C—B»). PJ CḡP°P·C- PİPëPSPëPePSPµPSPSCıı C,ııP¶PePëC...
 CḡPµP°PeC†C-Pñ PiC-PiPµCḡC†CíC,P»PëPIPsCíC,C- P»C-PeCíPIP°PSPSCıı
 C†PµC„C,CḡC-P°PeCíPsPSPsPj CíP»C-Pr PSPµPiP°PñPSPs PiCḡPëPiPëPSPëC,Pë C,P° PİP¶PëC,Pë

PSP°P»PμP¶PSPëC... PSPμPIC-PrPeP»P°PrPSPëC... P·P°C...PsPrC-PI. PμPμC¶PμPr
 PīPsC±P°C,PePsPj P»C-PeCfPIP°PSPSC¶ C,¶PμP±P° P·B¶™ C¶CfCfPIP°C,Pe, C±Pë P±CfP»Pë Cf
 PīP°C†C-C”PSC,P° C¶P°PSC-C¶Pμ C,C¶P¶PeC- C¶PμP°PeC†C-C—
 PiC-PīPμC¶CfC,P»PëPIPsCfC,C- PrPs C†PμC,,C,¶C¶C-P°PeCfPsPSCf, C-PSC¶PeC...
 C†PμC,,P°P»PsCfPīPsC¶PëPSC-PI P°P±Ps PrPs P±CfPrCH-C¶PePsPiPs C-PSC¶PsPiPs C,PëPīCf
 P±PμC,P°-P»P°PeC,P°PjPSPëC... P·P°CfPsP±C-PI. P¶P»C-Pr P· PsP±PμC¶PμP¶PSC-CfC,¶C
 PīC¶PëP·PSP°C±P°C,Pë C†PμC,,C,¶C¶C-P°PeCfPsPS PīP°C†C-C”PSC,P°Pj P· PSPμC,C¶P¶PePsC¶
 PiC-PīPμC¶CfC,P»PëPIC-CfC,¶C PrPs C-PSC¶PeC... P±PμC,P°-P»P°PeC,P°PjPSPëC...
 P»C-PeP°C¶CfCHPePëC... P·P°CfPsP±C-PI PI P°PSP°PjPSPμP·C-.

P†PjPsPIC-C¶PSC-CfC,¶C P°PSP°C,,C-P»P°PeC,PëC±PSPëC... C¶PμP°PeC†C-PNë
 PīC-PrPIPëC%CrC”C,CHCfC¶Cf Cf C...PIPsC¶PëC... PSP° P°PSP°C,,C-P»P°PeCfC-C¶ PI
 P°PSP°PjPSPμP·C- C,P° Cf C,PëC..., C...C,Ps CfC,C¶P°P¶PrP°C” PSP° C¶PμP°PeC†C-C—
 PiC-PīPμC¶CfC,P»PëPIPsCfC,C- PrPs C¶C-P·PSPëC... P°P»PμC¶PiPμPSC-PI, P·
 PsP±PμC¶PμP¶PSC-CfC,¶C P·P°CfC,PsCfPsPICfPIP°C,Pë PīP°C†C-C”PSC,P°Pj P·C-
 CfC...PëP»CHPSC-CfC,¶C PrPs P°P»PμC¶PiC-C±PSPëC... PrC-P°C,PμP·C-PI.

P—P°C¶PμC”CfC,C¶PsPIP°PSPs PIPëPīP°PrPePë C,C¶P¶PePëC... PSPμP±P°P¶P°PSPëC...
 C¶PμP°PeC†C-PNë P· P±PsPeCf C¶PeC-C¶Pë [CfPëPSPrC¶PsPj P¶C,C-PIPμPSCfP° B¶”
 P”P¶PsPSCfPsPSP° P°P±Ps CfPëPSPrC¶PsPj P»P°C”P»P°/ C,PsPeCfPëC±PSPëPNë
 PμPīC-PrPμC¶PjP°P»CHPSPëPNë PSPμPeC¶PsP»C-P· C- P»C-PeP°C¶CfCHPeP°
 C¶PμP°PeC†C-C¶ P· PμPsP·PëPSPsC,,C-P»C-C”¶C C,P° CfPëCfC,PμPjPSPëPjPë
 PīC¶PsC¶PIP°PjPë (DRESS-CfPëPSPrC¶PsPj)], C¶PeC- PīPsPIB¶™ C¶P·P°PSC- P·
 P»C-PeCfPIP°PSPSC¶Pj C†PμC,,C,C¶PëP°PeCfPsPSPsPj C,P° PjPsP¶CfC,¶C P±CfC,Pë
 P·P°PiC¶PsP·P»PëPIPëPjPë PrP»C¶ P¶PëC,C,C¶ P°P±Ps P»PμC,P°P»CHPSPëPjPë, PsPrPSP°Pe
 C±P°CfC,PsC,P° C†PëC... C¶PIPëC% PSPμPIC-PrPsPjP° (PrPëPI. C¶PsP·PrC-P»
 B«PμPsP±C-C±PSC- C¶PμP°PeC†C-C—B»).

P·PSC†PμC,,P°P»PsPīP°C,C-C¶

PμPsPIC-PrPsPjP»C¶P»PsCfC¶ PīC¶Ps PμPSC†PμC,,P°P»PsPīP°C,C-C¶ PīC¶Pë
 P·P°CfC,PsCfCfPIP°PSPSC- C†PμC,,C,¶C¶C-P°PeCfPsPSCf (PrPëPI. C¶PsP·PrC-P»
 B«PμPsP±C-C±PSC- C¶PμP°PeC†C-C—B»), PsCfPsP±P»PëPIPs Cf PīP°C†C-C”PSC,C-PI
 P»C-C,PSCHPsPiPs PIC-PeCf P· C,C¶P¶PePsC¶ PSPëC¶PePsPiPsC¶
 PSPμPrPsCfC,P°C,PSC-CfC,¶C (PrPëPI. C¶PsP·PrC-P» B«P¶PīPsCfC-P±
 P·P°CfC,PsCfCfPIP°PSPSC¶ C,P° PrPsP·PëB») P°P±Ps C¶PsP·P»P°PrP°PjPë
 C†PμPSC,C¶P°P»CHPSPsC— PSPμC¶PIPsPiPsC— CfPëCfC,PμPjPë. PīPeC%Ps
 PīC-PrPsP·C¶C¶C”C,CHCfC¶ PμPSC†PμC,,P°P»PsPīP°C,C-C¶, PīPsPIB¶™ C¶P·P°PSP° C-P·
 P·P°CfC,PsCfCfPIP°PSPSC¶Pj C†PμC,,C,¶C¶C-P°PeCfPsPSCf (PSP°PīC¶PëPeP»P°Pr,
 P·PSPëP¶PμPSPSC¶ C¶C-PIPSC¶ CfPIC-PrPsPjPsCfC,C-, P·PjC-PSP° PīCfPëC...C-C±PSPsPiPs
 CfC,P°PSCf, PjC-PsPeP»PsPSC-C¶, CfCfPrPsPjPë), CfP»C-Pr C¶PsP·PiP»C¶PSCfC,Pë
 PīPëC,P°PSPSC¶ PīC¶Ps PīC¶PëPīPëPSPμPSPSC¶ P·P°CfC,PsCfCfPIP°PSPSC¶
 C†PμC,,C,¶C¶C-P°PeCfPsPSCf.

P PμP°PeC†C-C¶ PīC¶PëC¶P° B¶” P”PμC¶PeCfPiPμPNëPjPμC¶P°.

Pj PrPμC¶PePëC... PīP°C†C-C”PSC,C-PI, C¶PeC- PjP°C¶C,¶C C-PSC,,PμPeC†C-C¶,
 CfPīC¶PëC±PëPSPμPSCf CfPīC-C¶PsC...PμC,P°PjPë, PjPsP¶Pμ PIPëPSPëPeP°C,Pë
 C¶PμP°PeC†C-C¶ PīC¶PëC¶P° B¶” P”PμC¶PeCfPiPμPNëPjPμC¶P° PsPrC¶P°P·Cf PīC-CfP»C¶
 PīPsC±P°C,PeCf C,PμC¶P°PīC-C— C†PμC,,C,C¶PëP°PeCfPsPSPsPj. PīC¶ C¶PμP°PeC†C-C¶
 P·P°P·PIPëC±P°PNë C” CfP°PjPsPsP±PjPμP¶CfPIP°P»CHPSPëPj CfC,P°PSPsPj P°P±Ps PjPsP¶Pμ
 P±CfC,Pë PIPëP»C-PeCfPIP°PSP° P·P° PrPsPīPsPjPsPiPsC¶ CfPëPjPīC,PsPjP°C,PëC±PSPsPiPs

P»C-PeCfPIP°PSPSCЦ. PμCḡPë PIPëPSPëPePSPμPSPSC- C†C-C″C— CḡPμP°PeC†C-C—
P·P°C†C,PsC†CfPIP°PSPSCЦ P°PSC,PëP±C-PsC,PëPeP° PjPsP¶PSP° PSPμ PiCḡPëPiPëPSCЦC,Pë.

PμCḡPμPiP°CḡP°C, PjPsP¶Pμ P·P±C-P»CHC€CfPIP°C,Pë PiCḡPsC,CḡPsPjP±C-PSPsPIPëPNë
C†P°C†. Pj P·PiBḡ™ CЦP·PeCf P· C†PëPj PiCḡPë PiC-PrPsP·CḡC- PSP° PrPμC,,C-C†PëC,
PIC-C,P°PjC-PSCf Pḡ PSPμPsP±C...C-PrPSPs PIPëP·PSP°C†P°C,Pë
PiCḡPsC,CḡPsPjP±C-PSPsPIPëPNë C†P°C†.

PḡPsP»C-C,/PSP°PrPjC-CḡPSPëPNë CḡC-C†C, PSPμC†CḡC,P»PëPIPëC...
PjC-PeCḡPsPsCḡPiP°PSC-P·PjC-PI.

PḡP° C,P»C- P·P°C†C,PsC†CfPIP°PSPSCЦ PiCḡP°PeC,PëC†PSPs PIC†C-C...
P°PSC,PëP±P°PeC,PμCḡC-P°P»CHPSPëC... PiCḡPμPiP°CḡP°C,C-PI, C† C,PsPjC† C†PëC†P»C- C-
C†PμC,,C,CḡC-P°PeC†PsPSCf C,P° C†C†P»CHP±P°PeC,P°PjC†, PjPsP¶P»PëPiPμ
PIPëPSPëPePSPμPSPSCЦ PrC-P°CḡPμC—, P°C†PsC†C-PNëPsPIP°PSPsC— P· *Clostridium difficile*,
PIC-Pr P»PμPiPePsPiPs C†C,C†PiPμPSCЦ C,CЦP¶PePsC†C,C- PrPs PePsP»C-C,C† P·
P»PμC,P°P»CHPSPëPj PSP°C†P»C-PrPePsPj. PḡPSC,PëP±P°PeC,PμCḡC-P°P»CHPSC-
PiCḡPμPiP°CḡP°C,Pë P·PjC-PSCḡCḡC,Cḡ PSPsCḡPjP°P»CHPSCf C,,P»PsCḡC† C,PsPIC†C,PsPiPs
PePëC€PμC†PSPëPeC†, C%Ps PiCḡPëP·PiPsPrPëC,Cḡ PrPs PSP°PrPjC-CḡPSPsPiPs CḡPsC†C,C†
Clostridium difficile. Clostridium difficile PiCḡPsPrC†PeC†C” C,PsPeC†PëPSPë Pḡ C,P° P’, C%Ps
C†PiCḡPëCЦCḡC,Cḡ CḡPsP·PIPëC,PeC† PrC-P°CḡPμC—, P°C†PsC†C-PNëPsPIP°PSPsC— P·
Clostridium difficile. PëC,P°PjPë *Clostridium difficile*, CЦPeC- PSP°PrPjC-CḡPSPs
PiCḡPsPrC†PeC†CḡC,Cḡ C,PsPeC†PëPSPë, C†PiCḡPëC†PëPSCЦCḡC,Cḡ PiC-PrPIPëC%PμPSC†
P·P°C...PiPsCḡCḡPiP°PSC-C†C,Cḡ C,P° P»PμC,P°P»CHPSC-C†C,Cḡ, PsC†PeC-P»CHPePë C†C-
C-PSC,,PμPeC†C-C— PjPsP¶C†C,Cḡ P±C†C,Pë CḡPμP·PëC†C,PμPSC,PSPëPjPë PrPs
P°PSC,PëPjC-PeCḡPsP±PSPëC... P·P°C†PsP±C-PI C,P° PiPsC,CḡPμP±C†PIP°C,Pë
PePsP»PμPeC,PsPjC-C—. P”C-P°CḡPμCḡ, P°C†PsC†C-PNëPsPIP°PSC† P· *Clostridium difficile*,
PSPμPsP±C...C-PrPSPs PIPëPeP»CḡC†PëC,Pë C† PIC†C-C... PiP°C†C-C”PSC,C-PI PiC-Pr C†P°C†
P·P°C†C,PsC†CfPIP°PSPSCЦ P°PSC,PëP±C-PsC,PëPeC-PI. PḡPμPsP±C...C-PrPSPs
P·C-P±CḡP°C,Pë PrPμC,P°P»CHPSPëPNë PjPμPrPëC†PSPëPNë P°PSP°PjPSPμP·,
PsC†PeC-P»CHPePë PrC-P°CḡPμCЦ, P°C†PsC†C-PNëPsPIP°PSP° P· *Clostridium difficile*, PjPsP¶Pμ
PIPëPSPëPeP°C,Pë PiCḡPsC,CЦPiPsPjB B B 2-C... PjC-C†CЦC†C-PI PiC-C†P»CЦ
P·P°PeC-PSC†PμPSPSCЦ P·P°C†C,PsC†CfPIP°PSPSCЦ P°PSC,PëP±P°PeC,PμCḡC-P°P»CHPSPëC...
P·P°C†PsP±C-PI. PŸP»C-Pr PsP±PjC-CḡPeC†PIP°C,Pë PiCḡPëPiPëPSPμPSPSCЦ C,PμCḡP°PiC-C—
C†PμC,,C,CḡPëP°PeC†PsPSPsPj C,P° P·P°C†C,PsC†CfPIP°PSPSCЦ PIC-PrPiPsPIC-PrPSPëC...
P·P°C†PsP±C-PI PiCḡPsC,Pë *Clostridium difficile*. P·C-PeP°CḡC†CḡPeC- P·P°C†PsP±Pë, C%Ps
PiCḡPëPiPSC-C†C†CḡC,Cḡ PiPμCḡPëC†C,P°P»CHC,PëPeC†, P·P°C†C,PsC†PsPIC†PIP°C,Pë PSPμ
C†P»C-Pr.

PiPe C- PiCḡPë P·P°C†C,PsC†CfPIP°PSPSC- C-PSC€PëC...
P°PSC,PëP±P°PeC,PμCḡC-P°P»CHPSPëC... P·P°C†PsP±C-PI, PjPsP¶C†C,Cḡ PIPëPSPëPeP°C,Pë
C†C†PiPμCḡC-PSC,,PμPeC†C-C—, C†PiCḡPëC†PëPSPμPSC- PSPμC†C†C,P»PëPiPëPjPë PrPs
PiCḡPμPiP°CḡP°C,C† PjC-PeCḡPsPsCḡPiP°PSC-P·PjP°PjPë.

P—P° PeP»C-PSC-C†PSPëPjPë PiPsPeP°P·P°PSPSCЦPjPë C†P»C-Pr PiCḡPëP·PSP°C†PëC,Pë
PIC-PrPiPsPIC-PrPSC† PeC-P»CHPeC-C†C,Cḡ CḡC-PrPëPSPë C,P° PμP»PμPeC,CḡPsP»C-C,C-PI,
P±C-P»PePsPIPëC... PrPsP±P°PiPsPe, P°PSC,PëP±C-PsC,PëPePsC,PμCḡP°PiC-Cḡ, PrPs
CЦPePsC— C†C†C,P»PëPiP° *Clostridium difficile* C,P° C...C-CḡC†CḡPiC-C†PSPμ
PsP±C†C,PμP¶PμPSPSCЦ.

PμCḡPsC,CЦPiPsPj C,CḡPëPiP°P»PsPiPs P·P°C†C,PsC†CfPIP°PSPSCЦ
C†PμC,,C,CḡC-P°PeC†PsPSC† PjPsP¶P»PëPIC- C,CḡC†PrPSPsC%C- C†

PePsPSC,CTjPsP»CHPIP°PSPSC- PSPμC†C†C,P»PëPIPëC... PrPs PïCTjPμPïP°CTjP°C,C†
PjC-PeCTjPsPsCTjPiP°PSC-P·PjC-PI. PJ P·PIBTM C†P·PeC† P· C†PëPj PSPμPsP±C...C-PrPSPëPNë
CTjPμC,PμP»CHPSPëPNë PSP°PiP»C†P Pr P·P° PïP°C†C-C°PSC,P°PjPë. PμCTjPë
PIPëPSPëPePSPμPSPSC- C†C†PïPμCTjC-PSC,,PμPeC†C-C— PSPμPsP±C...C-PrPSPs PIP¶PëC,Pë
PIC-PrPïPsPIC-PrPSC- P·P°C...PsPrPë.

PÿPïPμPeC,CTj P°PSC,PëP±P°PeC,PμCTjC-P°P»CHPSPsC— P°PeC,PëPIPSPsC†C,C-.

PïPμC,,C,CTjPëP°PeC†PsPS PjP°C° PsP±PjPμP¶PμPSPëPNë C†PïPμPeC,CTj
P°PSC,PëP±P°PeC,PμCTjC-P°P»CHPSPsC— P°PeC,PëPIPSPsC†C,C- C- PjPsP¶Pμ P±C†C,Pë
PSPμPïCTjPëPrP°C,PSPëPj PrP»C† P·P°C†C,PsC†C†PIP°PSPSC† PI C†PePsC†C,C-
PjPsPSPsC,PμCTjP°PïC-C— PïCTjPë P»C-PeC†PIP°PSPSC- PïPμPIPSPëC... C,PëPïC-PI
C-PSC,,PμPeC†C-C—, PeCTjC-Pj PIPëPïP°PrPeC-PI, PePsP»Pë P·P±C†PrPSPëPe PIP¶Pμ
PïC-PrC,PIPμCTjPrP¶PμPSPëPNë (PrPëPI. CTjPsP·PrC-P» B«B«PÿPïPsC†C-P±
P·P°C†C,PsC†C†PIP°PSPSC† C,P° PrPsP·PëB»). PJ PIPëPïP°PrPeC†
PïPsP»C-PjC-PeCTjPsP±PSPëC... C-PSC,,PμPeC†C-PNë, PePsP»Pë C†PμCTjPμPr
PïC-PrPsP·CTjCTjPIP°PSPëC... P·P±C†PrPSPëPeC-PI C° CTjPμP·PëC†C,PμPSC,PSC- PrPs
C†PμC,,C,CTjPëP°PeC†PsPSC† PjC-PeCTjPsPsCTjPiP°PSC-P·PjPë, C†P»C-Pr CTjPsP·PiP»C†PSC†C,Pë
P·P°C†C,PsC†C†PIP°PSPSC† PrPsPrP°C,PePsPIPëC... P°PSC,PëP±C-PsC,PëPeC-PI.

P-PsPIC†PsPeP°PjβTM C†PSP° C...PIPSCtjPsP±P°.

PJ PIPëPïP°PrPeC† PSP°C†PIPSPsC†C,C- PSP° C†PsPSPsPiCTjP°PjC- C,C-PSPμPNë C†P»C-Pr
P·PIP°P¶PëC,Pë PSP° PjPsP¶P»PëPIC-C†C,CH C†C,PIPsCTjPμPSPSC† PïCTjPμC†PëPïC-C,P°C,C-PI
PeP°P»CHC†C-C°PIPsC— C†PsP»C- C†PμC,,C,CTjPëP°PeC†PsPSC†. P—P°C,C-PSPμPSPSC†, C%Ps
PïPsPjPëP»PePsPIPs PIPIP°P¶P°P»PëC†C† P¶PsPIC†PSPëPjPë PeP°PjPμPSC†PjPë,
C†PïPsC†C,PμCTjC-PiP°P»PëC†C† PSP° C†PsPSPsPiCTjP°PjP°C... P¶PsPIC†PSPsPiPs
PjC-C...C†CTjP°, C- C†P°C†C,PsC,P° C—C... PIPëPSPëPePSPμPSPSC† P·CTjPsC†C,P°P»P° PïCTjPë
P·P°C†C,PsC†C†PIP°PSPSC- C†PμC,,C,CTjPëP°PeC†PsPSC† C† PrPsP·C- 1 Pi/PrPsP±C† C,P°
PIPëC%Pμ. PhC†PsP±P»PëPIPsC— PsP±PμCTjPμP¶PSPsC†C,C- C†P»C-Pr
PrPsC,CTjPëPjC†PIP°C,PëC†C† PïCTjPë P·P°C†C,PsC†C†PIP°PSPSC- PïCTjPμPïP°CTjP°C,C†
PrC-C,C†Pj. PÿP°PeC- PïCTjPμC†PëPïC-C,P°C,Pë P·PSPëPeP°CTjC,CH PïC-C†P»C†
PïCTjPëPïPëPSPμPSPSC† C,PμCTjP°PïC-C— C†PμC,,C,CTjPëP°PeC†PsPSPsPj.

PJ CTjC-PrPeC-C†PSPëC... PIPëPïP°PrPeP°C... C†C,PIPsCTjPμPSPSC† PïCTjPμC†PëPïC-C,P°C,C-PI
PeP°P»CHC†C-C°PIPsC— C†PsP»C- C†PμC,,C,CTjC-P°PeC†PsPSC†
C†C†PïCTjPsPIPsPrP¶C†PIP°P»PsC†C† C†PëPjPïC,PsPjP°C,PëPePsCTj. PJ CTjP°P·C-
PSP°C†PIPSPsC†C,C- C†PëPjPïC,PsPjC-PI CTjPμPePsPjPμPSPrC†C°C,CHC†C†
PePsPSC†PμCTjPIP°C,PëPIPSPμ PSPμC...C-CTjC†CTjPiC-C†PSPμ P»C-PeC†PIP°PSPSC†, C-
P»C-PeP°CTj PjP°C° PïCTjPëPNëPSC†C,Pë CTjC-C€PμPSPSC† PïCTjPs PïCTjPëPïPëPSPμPSPSC†
P·P°C†C,PsC†C†PIP°PSPSC† PïCTjPμPïP°CTjP°C,C†, C†PïPëCTjP°CTjC†PëC†CH PSP°
CTjPμP·C†P»CHC,P°C,Pë PsC†C-PSPëPë PePsCTjPëC†C,C--CTjPëP·PëPeC†
PePsPSPeCTjPμC,PSPsPiPs PIPëPïP°PrPeC† (PrPëPI. CTjPsP·PrC-P» B«PμPsP±C-C†PSC-
CTjPμP°PeC†C-C—B»).

P-PsPIC†PSPëPNë C†C,P°P·.

PJ C...PIPsCTjPëC..., C†PePëPj PIPsPrPëP»Pë C†PμC,,C,CTjC-P°PeC†PsPS, PsPïPëC†P°PSC-
PïPsPsPrPëPSPsPeC- PIPëPïP°PrPePë PïP°PSPeCTjPμP°C,PëC,C†, C%Ps CTjPsP·PIPëPSC†PIC†C†,
PjPsP¶P»PëPIPs, PIPSP°C†P»C-PrPsPe PsP±C†C,CTjC†PeC†C-C— P¶PsPIC†PsPIPëPIC-PrPSPëC...
C€P»C†C...C-PI. P°C-P»CHC€C-C†C,CH C-P· C,P°PePëC... PïP°C†C-C°PSC,C-PI PjP°P»Pë
C,,P°PeC,PsCTjPë CTjPëP·PëPeC† CTjPsP·PIPëC,PeC† C...PsP»PμC†C,P°P·C† C,P°

СрС,PIPsCтPμPSPSCЦ P±C-P»C-P°CтPSPsPiPs CтP»P°PrP¶Cт, C,P°PeC- CцPe
PiPsPiPμCтPμPrPSCЦ P·PSP°C±PSP° C,PμCтP°PiC-Cц, C,CцP¶PeP° C...PIPsCтPsP±P° C,P°
PiPsPiPSPμ PiP°CтPμPSC,PμCтP°P»CтPSPμ C...P°CтC±CтPIP°PSPSCЦ. PкPμ PjPsP¶PSP°
PIPëPeP»CтC±P°C,Pë, C%Ps C-PSC-CтC-CтCтC±PëPj P°P±Ps PrPsPrP°C,PePsPiPëPj
C,,P°PeC,PsCтPsPj CтPsP·PIPëC,PeCт CтCтPsPiPs PiPsCтCтCтPμPSPSCЦ PjPsP¶Pμ P±CтC,Pë
CтC,PIPsCтPμPSPSCЦ Cт P¶PsPIC±PSPëC... CëP»CцC...P°C... PiCтPμCтPëPiC-C,P°C,C-PI
PIPSP°CтP»C-PrPsPe P·P°CтC,PsCтCтPIP°PSPSCЦ PiCтPμPiP°CтP°C,Cт
PŸCтP»CтP±P°PeC,PsPjP°PeCт.

PкPëCтPePsPIPsPeP°Pjë™ CцPSP° C...PIPsCтPsP±P°.

P—P°CтPμC”CтC,CтPsPiP°PSC- PIPëPiP°PrPePë CтC,PIPsCтPμPSPSCЦ PSPëCтPePsPiPëC...
PeP°PjPμPSC-PI, C%Ps P·PSPëPeP°P»Pë PiC-CтP»Cц PiCтPëPiPëPSPμPSPSCЦ
P·P°CтC,PsCтCтPIP°PSPSCЦ CтPμC,,C,CтC-P°PeCтPsPSCт (PrPëPI. CтPsP·PrC-P»
B«PμPsP±C-C±PSC- CтPμP°PeCтC-C—B»). PJ PIPëPiP°PrPeCт PSP°CцPIPSPsCтC,C-
CтPëPjPiC,PsPjC-PI CтP»C-Pr P·CтPsP±PëC,Pë CтP»CтC,CтP°P·PICтPePsPiPμ
PsP±CтC,PμP¶PμPSPSCЦ. P C-CëPμPSPSCЦ C%PsPrPs P·P°CтC,PsCтCтPIP°PSPSCЦ
PiCтPμPiP°CтP°C,Cт PiP°CтC-C”PSC,P°Pj C-P· PSP°CцPIPSC-CтC,Cт PI P°PSP°PjPSPμP·C-
PSPëCтPePsPiPëC... PeP°PjPμPSC-PI P°P±Ps PiC-PiPμCтPeP°P»CтCтC-CтCтC-C—
PiCтPëPμPjP°C” P»C-PeP°Cт, CтPiPëCтP°CтC±PëCтCт PSP° CтPμP·CтP»CтC,P°C,Pë
PsCтC-PSPePë PePsCтPëCтC,C--CтPëP·PëPeCт PePsPSPeCтPμC,PSPsPiPs PIPëPiP°PrPeCт.

P”C-C,Pë.

PiPμC,,C,CтC-P°PeCтPsPS, C%Ps PIC...PsPrPëC,Cт PrPs CтPeP»P°PrCт PiCтPμPiP°CтP°C,Cт,
PjPsP¶Pμ PIPëC,C-CтPSCЦ,C,Pë P±C-P»C-CтCтP±C-PS P·C- P·PiBт™ CцP·PeCт P·
P°P»CтP±CтPjC-PSPsPj CтPëCтPsPiP°C,PePë PeCтPsPIC-. PJ P·PiBт™ CцP·PeCт P· CтPëPj
P·P°CтC,PsCтCтPIP°PSPSCЦ CтPμC,,C,CтC-P°PeCтPsPSCт PiCтPsC,PëPiPsPeP°P·P°PSPs
PSPμPrPsPSPsCëPμPSPëPj C,P° PrPsPSPsCëPμPSPëPj PSPsPiPsPSP°CтPsPrP¶PμPSPëPj,
CцPePëPj P·P°PiCтPsP¶CтC” CтPëP·PëPe CтPsP·PIPëC,PeCт P±C-P»C-CтCтP±C-PSPsPiPsC—
PμPSCтPμC,,P°P»PsPiP°C,C-C— (PrPëPI. CтPsP·PrC-P» B«PμCтPsC,PëPiPsPeP°P·P°PSPSCЦB»).

PŸCцP¶PeP° PSPëCтPePsPiP° C,P° PiPμC±C-PSPePsPiP° PSPμPrPsCтC,P°C,PSC-CтC,Cт.

PJ PIPëPiP°PrPeCт C,CцP¶PePsC— PSPëCтPePsPiPsC— C,P° PiPμC±C-PSPePsPiPsC—
PSPμPrPsCтC,P°C,PSPsCтC,C- CтPμPePsPjPμPSPrPsPiP°PSPëPμ CтPμC,PμP»CтPSPëPμ
PeP»C-PSC-C±PSPëPμ PjPsPSC-C,PsCтPëPSPi P±PμP·PiPμPePë C,P° PμC,,PμPeC,PëPIPSPsCтC,C-
PiCтPμPiP°CтP°C,Cт (PrPëPI. CтPsP·PrC-P» B«PŸPiPsCтC-P± P·P°CтC,PsCтCтPIP°PSPSCЦ C,P°
PrPsP·PëB»).

PJ C...PIPsCтPëC... C-P· PiPsCтCтCтPμPSPsCт C,,CтPSPeCтC-C”Cт PSPëCтPsPe, P·P°
CтPjPsPiPë PSPsCтPjP°P»CтPSPsC— C,,CтPSPeCтC-C— PiPμC±C-PSPePë, PrPsP·Cт
PŸCтP»CтP±P°PeC,PsPjP°PeCтCт P·PjPμPSCëCтPIP°C,Pë PSPμ PiPsC,CтC-P±PSPs. PμCтPë
PSPμPrPsCтC,P°C,PSPsCтC,C- PSPëCтPsPe (PeP»C-CтPμPSCт PeCтPμP°C,PëPSC-PSCт
PSPëP¶C±Pμ

10 PjP»/C...PI) PSPμPsP±C...C-PrPSPs, C%PsP± PrPsP±PsPiP° PrPsP·P°
CтPμC,,C,CтC-P°PeCтPsPSCт PSPμ PiPμCтPμPiPëC%CтPIP°P»P° 2 Pi.

PJ C...PIPsCтPëC... C-P· PiPsCтCтCтPμPSPsCт C,,CтPSPeCтC-C”Cт PiPμC±C-PSPePë, P·P°
CтPjPsPiPë P·P±PμCтPμP¶PμPSPSCЦ C,,CтPSPeCтC-C— PSPëCтPsPe, PrPsP·Cт
PŸCтP»CтP±P°PeC,PsPjP°PeCтCт P·PjPμPSCëCтPIP°C,Pë PSPμPjP°C”

PSPμPsP±C...C-PrPSPsCfC,C-.

PJ PIPëPïP°PrPeP°C... PsPrPSPsC±P°CfPSPsC— PSP°CfPIPIPSPsCfC,C- C,CfP¶PePsC—
PïP°C,PsP»PsPiC-C— PïPμC±C-PSPePë C- PSPëCfPSPe PePsPSC†PμPSC,CfP°C†C-Cf
C†PμC,,C,CfC-P°PeCfPSPSCr Cr CfPëCfPSPiP°C,C†C- PeCfPSPiC- PSPμPsP±C...C-PrPSPs
CfPμPiCfP»CfCfPSPs PePsPSC,CfPSP»CfPIP°C,Pë. PJ C...PIPsCfPëC..., CfPeC-
PïPμCfPμP±CfPIP°CfC,Ch PSP° PïPμPjPsPrC-P°P»C-P·C-, PrPsP·Cf PïCfPμPïP°CfP°C,Cf
PïC-CfP»Cf PïCfPSPiPμPrPμPSPSCf C†C-C" C— PïCfPSC†PμPrCfCfPë P·PjC-PSCfPIP°C,Pë
PSPμPjP°C" PSPμPsP±C...C-PrPSPsCfC,C-.

PŸP»C-Pr PIPëCfPIIP»CfC,Pë PsP±PμCfPμP¶PSC-CfC,Ch PïCfPë P·P°CfC,PsCfCfPIP°PSPSC-
C†PμC,,C,CfC-P°PeCfPSPSCr C...PIPsCfPëPj C-P· PSPëCfPePsPIPsCf
PSPμPrPsCfC,P°C,PSC-CfC,Ch, CfPeC- PsPrPSPsC±P°CfPSPs PsC,CfPëPjCfCfC,Ch
P°PjC-PSPsPiP»C-PePsP·PëPrPë C,P° PrC-CfCfPμC,PëPePë.

P'P·P°C" PjPsPrC-Cf P· P»C-PeP°CfCfChPePëPjPë P·P°CfPsP±P°PjPë, C%Ps PjC-CfC,CfC,Ch
PeP°P»ChC†C-PNë.

PJ PSPμPrPsPSPsC€PμPSPëC... C,P° PrPsPSPsC€PμPSPëC... PSPμPjPsPIP»CfC, PIC-PePsPj
PjPμPSC€Pμ 1 PjC-CfCfC†Cf PsPïPëCfP°PSC- PIPëPïP°PrPePë CrC,PIPsCfPμPSPSCf
PïCfPμC†PëPïC-C,P°C,C-PI PeP°P»ChC†C-C"PIPsC— CfPsP»C- C†PμC,,C,CfC-P°PeCfPSPSCr Cr
P»PμPiPμPSCfC... C,P° PSPëCfPeP°C... C-P· P»PμC,P°P»ChPSPëPjPë PSP°CfP»C-PrPeP°PjPë.
P©PsPSP°PNëPjPμPSC€Pμ PsPrPSPsPjCf C-P· C†PëC... PïP°C†C-C"PSC,C-PI
C†PμC,,C,CfC-P°PeCfPSPS C,P° PeP°P»ChC†C-PNë PIPiPsPrPëP»Pë Cr CfC-P·PSPëPNë C±P°Cf
C,P° C±PμCfPμP· CfC-P·PSC- PIPSCrC,CfC-C€PSCfPSPiPμPSPSC- C-PSC,,CfP·C-PNëPSC-
CfPëCfC,PμPjPë. P—PiC-PrPSPs P· PSP°CfPIPIPSPëPjPë PSP°CfPePsPIPëPjPë PrP°PSPëPjPë, PSPμ
P·P°CfPμC"CfC,CfPSPiP°PSPs PïC-PrC,PIPμCfPμP¶PμPSPëC... PIPëPïP°PrPeC-PI
CfC,PIPsCfPμPSPSCf PIPSCrC,CfC-C€PSCfPSPiCfCfPrPëPSPSPëC... PïCfPμC†PëPïC-C,P°C,C-PI,
PeCfC-Pj CfPe Cr PSPsPIPsPSP°CfPSPiPμPSPëC..., CfPePëPj PIPiPsPrPëP»Pë
C†PμC,,C,CfC-P°PeCfPSPS C,P° PeP°P»ChC†C-PNëPIPjC-CfPSC- CfPSP·C†PëPSPë P°P±Ps
P±CfPrCh-CfPeC- C-PSC€C- PeP°P»ChC†C-PNëPIPjC-CfPSC- PïCfPμPïP°CfP°C,Pë. PJ
PrPsCfP»C-PrP¶PμPSPSCfC... C-n vitro P±CfP»Ps PïPsPeP°P·P°PSPs, C%Ps
PSPsPIPsPSP°CfPSPiPμPSPëPj P·P°PïCfPSP¶CfC" PïC-PrPIPëC%PμPSPëPNë CfPëP·PëPe
CfC,PIPsCfPμPSPSCf PïCfPμC†PëPïC-C,P°C,C-PI PeP°P»ChC†C-C"PIPsC— CfPsP»C-
C†PμC,,C,CfC-P°PeCfPSPSCr PïPsCfC-PIPSCfPSPs P· PïP°C†C-C"PSC,P°PjPë C-PSC€PëC...
PIC-PePsPIPëC... PïCfCfPï.

PμCfPë P·P°CfC,PsCfCfPIP°PSPSC- C†PμC,,C,CfC-P°PeCfPSPSCr PïP°C†C-C"PSC,P°Pj
P±CfPrCh-CfPePsPiPs PIC-PeCr PïCfPμPïP°CfP°C, PSPμ PjPsP¶PSP° P·PjC-C€CfPIP°C,Pë
P°P±Ps PIPiPsPrPëC,Pë PsPrPSPsC±P°CfPSPs P· P±CfPrCh-CfPePëPjPë CfPSP·C†PëPSP°PjPë
PrP»Cf PIPSCrC,CfC-C€PSCfPSPiPμPSPSPsPiPs PIPiPμPrPμPSPSCf, C%Ps PjC-CfC,CfC,Ch
PeP°P»ChC†C-PNë, PSP°PIC-C,Ch PïCfPë PIPëPePsCfPëCfC,P°PSPSC- CfC-P·PSPëC...
C-PSC,,CfP·C-PNëPSPëC... CfPëCfC,PμPj P°P±Ps PIPiPμPrPμPSPSC- PïCfPμPïP°CfP°C,C-PI Cr
CfC-P·PSC- C-PSC,,CfP·C-PNëPSC- PrC-P»CfPSPePë. PμCfPSPC,Pμ PïP°C†C-C"PSC,P°Pj
PIC-PePsPj PIC-Pr 28 PrPSC-PI C†PμC,,C,CfC-P°PeCfPSPS C,P° PeP°P»ChC†C-PNëPIPjC-CfPSC-
CfPSP·C†PëPSPë PjPsP¶PSP° PIPiPsPrPëC,Pë PïPsCfP»C-PrPsPIPsPs, PsPrPëPS PïC-CfP»Cf
PsPrPSPsPiPs, P·P° C†PjPsPIPë PIPiPμPrPμPSPSCf PïCfPμPïP°CfP°C,C-PI C±PμCfPμP·
CfC-P·PSC- C-PSC,,CfP·C-PNëPSC- CfPëCfC,PμPjPë Cr CfC-P·PSC- PrC-P»CfPSPePë C,C-P»P°
P°P±Ps P·P°PjC-PSPë C†Pë CfPμC,PμP»ChPSPsPiPs PïCfPSPjPëPIP°PSPSCf
C-PSC,,CfP·C-PNëPSPsC— CfPëCfC,PμPjPë PjC-P¶ PIPiPμPrPμPSPSCfPj C†PëC... P·P°CfPsP±C-PI
C,,C-P·C-PsP»PsPiC-C†PSPëPj CfPsP»ChPSPiPëPj CfPSP·C†PëPSPsPj, C%PsP±
P·P°PïPsP±C-PiC,Pë CrC,PIPsCfPμPSPSCf PïCfPμC†PëPïC-C,P°C,Cf. PμP°C†C-C"PSC,P°Pj,

CΠPeC- ΠΐPsC, CḡPμP±CfCḡC, CH ΠΐPsCfC, C-PNεPSPëC... C-PSC,, CfP·C-PNε
 PeP°P»CHC†C-PNεPIPJc-CfPSPëC... CḡPsP·C†PëPSC-PI PrP»CΠ ΠΐPsPIPSPsPiPs
 ΠΐP°CḡPμPSC, PμCḡP°P»CHPSPsPiPs C...P°CḡC†CfPIP°PSPSCΠ (PμPμPΓ), PjPμPrPëC†PSC-
 ΠΐCḡP°C†C-PIPSPëPePë PjPsP¶CfC, CH ΠΐCḡPëP·PSP°C†PëC, Pë P°P»CHC, PμCḡPSP°C, PëPIPSC-
 P°PSC, PëP±P°PeC, PμCḡC-P°P»CHPSC- P·P°CfPsP±Pë, P·P°CfC, PsCfCfPIP°PSPSCΠ CΠPePëC...
 PSPμ ΠΐPsPIBḡ™ CΠP·P°PSPμ P· ΠΐPsPrC-P±PSPëPj CḡPëP·PëPePsPj CfC, PIPsCḡPμPSPSCΠ
 ΠΐCḡPμC†PëΠC-C, P°C, C-PI. ΠΐPeC%Ps P·P°CfC, PsCfCfPIP°PSPSCΠ
 C†PμC,, C, CḡC-P°PeCfPsPSCf ΠΐP°C†C-C" PSC, P°Pj, CΠPeC- ΠΐPsC, CḡPμP±CfCḡC, CH
 ΠΐPsCfC, C-PNεPSPsPiPs C...P°CḡC†CfPIP°PSPSCΠ, PIPëP·PSP°PSPs PSPμPsP±C...C-PrPSPëPj,
 CḡPsP·C†PëPSPë PrP»CΠ PμPμPΓ C, P° C†PμC,, C, CḡC-P°PeCfPsPS PjPsP¶PSP° PIPsPrPëC, Pë
 PsPrPSPsC†P°CfPSPs, C...PsC†P° C- C†PμCḡPμP· CḡC-P·PSC- C-PSC,, CfP·C-PNεPSC-
 CfPëCfC, PμPjPë C, P° Cf CḡC-P·PSC- PrC-P»CΠPSPëC C, C-P»P°. PÿP°PePsP¶
 PIPμPrPμPSPSCΠ CḡPsP·C†PëPSC-PI PrP»CΠ PμPμPΓ PjPsP¶PSP° ΠΐCḡPëP·CfΠΐPëPSPëC, Pë
 PSP° C†P°Cf C-PSC,, CfP·C-C— C†PμC,, C, CḡC-P°PeCfPsPSCf C, P° ΠΐCḡPsPjPëC, Pë
 C-PSC,, CfP·C-PNεPSC- CfPëCfC, PμPjPë PjC-P¶ PIPμPrPμPSPSCΠPj CḡPsP·C†PëPSC-PI (PrPëPI.
 CḡPsP·PrC-P»Pë B«PμCḡPsC, PëΠΐPsPeP°P·P°PSPSCΠB», B«PμPsP±C-C†PSC-
 CḡPμP°PeC†C-C—B» C, P° B«PκPμCfCfPjC-CfPSC-CfC, CHB»).

P†PjCéPSPsPsPiPsCfPμCḡPμPrPePsPIP°PSP° PiPμPjPsP»C-C, PëC†PSP° P°PSPμPjC-CΠ.

P'PëΠΐP°PrPePë C-PjCfPSPsPsPiPsCfPμCḡPμPrPePsPIP°PSPsC— PiPμPjPsP»C-C, PëC†PSPsC—
 P°PSPμPjC-C— CfΠΐPsCfC, PμCḡC-ΠΐP°P»PëCfCΠ Cf ΠΐP°C†C-C" PSC, C-PI, CΠPeC-
 PsC, CḡPëPjCfPIP°P»Pë P°PSC, PëP±P°PeC, PμCḡC-P°P»CHPSC- P·P°CfPsP±Pë PeP»P°CfCf
 C†PμC,, P°P»PsCfΠΐPsCḡPëPSC-PI, PI C, PsPjCf C†PëCfP»C- C†PμC,, C, CḡC-P°PeCfPsPS (PrPëPI.
 CḡPsP·PrC-P» B«PμPsP±C-C†PSC- CḡPμP°PeC†C-C—B»). PμCḡPs PIPëΠΐP°PrPePë
 C, CΠP¶PePsC— PiPμPjPsP»C-C, PëC†PSPsC— P°PSPμPjC-C—, Cf C, PsPjCf C†PëCfP»C-
 P»PμC, P°P»CHPSC-, ΠΐPsPIC-PrPsPjP»CΠP»PsCfCΠ CΠPe Cf PrPsCḡPsCfP»PëC...
 ΠΐP°C†C-C" PSC, C-PI, C, P°Pe C- Cf PrC-C, PμPNε.

ΠΐPeC%Ps ΠΐC-Pr C†P°Cf P·P°CfC, PsCfCfPIP°PSPSCΠ C†PμC,, C, CḡC-P°PeCfPsPSCf Cf
 ΠΐP°C†C-C" PSC, P° PIPëPSPëPeP°C" P°PSPμPjC-CΠ, CfP»C-Pr CḡPsP·PiP»CΠPSCfC, Pë
 PrC-P°PiPSPsP· P°PSPμPjC-C—, P°CfPsC†C-PNεPsPIP°PSPsC— C-P·
 P·P°CfC, PsCfCfPIP°PSPSCΠPj C†PμC,, P°P»PsCfΠΐPsCḡPëPSCf, C, P° ΠΐCḡPëΠΐPëPSPëC, Pë
 P·P°CfC, PsCfCfPIP°PSPSCΠ C†PμC,, C, CḡC-P°PeCfPsPSCf PrPs PICfC, P°PSPsPIP»PμPSPSCΠ
 PμC, C-PsP»PsPiC-C— P·P°C...PIPsCḡCḡPIP°PSPSCΠ.

P"PsPIPiPsC, CḡPëPIP°P»Pμ P»C-PeCéPIP°PSPSCΠ.

PμC-Pr C†P°Cf C, CḡPëPIP°P»PsPiPs P»C-PeCfPIP°PSPSCΠ CfP»C-Pr CḡPμPiCfP»CΠCḡPSPs
 PePsPSC, CḡPsP»CḡPIP°C, Pë PeP°CḡC, PëPSCf PeCḡPsPIC-.

PκP°C, CḡC-PNε.

PιPμC,, C, CḡC-P°PeCfPsPSCf PSP°C, CḡC-C"PIP° CfC-P»CH C, P° CfCfP»CHP±P°PeC, P°PjCf
 PSP°C, CḡC-C"PIP° CfC-P»CH PjC-CfC, CΠC, CH PSP°C, CḡC-PNε, C%Ps PSPμPsP±C...C-PrPSPs
 PICḡP°C...CfPIP°C, Pë ΠΐP°C†C-C" PSC, C-PI, CΠPeC- PrPsC, CḡPëPjCfCḡC, CHCfCΠ PrC-C"C, Pë P·
 PsP±PjPμP¶PμPSPëPj PIPjC-CfC, PsPj PSP°C, CḡC-Cḡ.

*P'ΠΐP»PëPI PSP° CḡPμP·CéP»CHC, P°C, Pë CfPμCḡPsP»PsPiC-C†PSPëC...
 PrPsCfP»C-PrP¶PμPSCH.*

PμCḡPë P·P°CfC, PsCfCfPIP°PSPSC- ΠΐCḡPμΠΐP°CḡP°C, Cf PÿCfP»CHP±P°PeC, PsPjP°PeCf

C, P_μC[†]C, P_μC[†]P_jP_±C[†]P[°] P_jP_sP_¶P_μ P_rP[°]PIP[°]C, P_ë C...P_ëP_±PSP_sP_iP_sP_·P_ëC, P_ëPIPSC-
C_¶P_μP_·C[†]P_»C_HC, P[°]C, P_ë. P_ÿP[°]PePsP_¶ C[†]P_μC_„C, C_¶C- P[°]PeC[†]P_sPS P_jP_sP_¶P_μ
C[†]P_iC_¶P_ëC_‡P_ëPSC_¶C, P_ë C...P_ëP_±PSP_sP_iP_sP_·P_ëC, P_ëPIPSC- C_¶P_μP_·C[†]P_»C_HC, P[°]C, P_ë
P[°]PSP[°]P_»C- P_·C[†] PSP[°] PSP[°]C_¶PIPSC- C[†]C, C_H P_iP[°]P_»P[°]PeC, P_sP_·P_μP_jC- C— (P_rP_ëPI. C_¶P_sP_·P_rC- P_»)
B«P_μP_sP_±C- C_‡PSC- C_¶P_μP[°]PeC[†]C- C—B»).

P_μC_¶P_ë PIP_ëP_·PSP[°]C_‡P_μPSPSC- P_iP_»C_HPePsP_·P_ë C[†] C[†]P_μC_‡C- PSP_μC_„P_μC_¶P_jP_μPSC, PSP_ëP_jP_ë
P_jP_μC, P_sP_rP[°]P_jP_ë P_jP_sP_¶C[†]C, C_H P_±C[†]C, P_ë P_sC, C_¶P_ëP_jP[°]PSC- C...P_ëP_±PSP_sP_iP_sP_·P_ëC, P_ëPIPSC-
C_¶P_μP_·C[†]P_»C_HC, P[°]C, P_ë. P_μC_¶P_sC, C_¶P_iP_sP_j P_·P[°]C[†]C, P_sC[†]C[†]PIP[°]PSPSC_¶
P_ÿC[†]P_»C_HP_±P[°]PeC, P_sP_jP[°]PeC[†]C[†] C_¶C- PIPSC- P_iP_»C_HPePsP_·P_ë C[†] C[†]P_μC_‡C- C[†]P_»C- P_r
PIP_ëP_·PSP[°]C_‡P[°]C, P_ë P_·P[°] P_rP_sP_iP_sP_jP_sP_iP_sC_H C_„P_μC_¶P_jP_μPSC, PSP_ëC... P_jP_μC, P_sP_rC- P_i
P[°]PSP[°]P_»C- P_·C[†] (P_rP_ëPI. C_¶P_sP_·P_rC- P_») B«P_μP_sP_±C- C_‡PSC- C_¶P_μP[°]PeC[†]C- C—B»).

P—P[°]C[†]C, P_sC[†]C_‡PIP[°]PSPSC_¶ P_»C- P_rP_sPeP[°]C—PSC_‡.

P_iPeC%_oP_s P_i C_¶PePsC[†]C, C- C_¶P_sP_·C_‡P_ëPSPSP_ëPeP[°] P_·P[°]C[†]C, P_sC[†]P_sPIC[†]PIP[°]C, P_ë
C_¶P_sP_·C_‡P_ëPS P_»C- P_rP_sPeP[°]C—PSC[†], C[†]P_μC_„C, C_¶C- P[°]PeC[†]P_sPS P_jP_sP_¶PSP[°] PIP_iP_sP_rP_ëC, P_ë
P_»P_ëC_€P_μ PIPSC[†]C, C_¶C- C_€PSCH_{Ps}P_jб_¶™ C_¶P_·P_sPIPs. P_μP_μC_¶P_μP_r PIP_iP_μP_rP_μPSPSC_¶P_j
P_iC_¶P_μP_iP[°]C_¶P[°]C, C[†] C[†]P_»C- P_r P_sP_±P_sPIб_¶™ C_¶P_·PePsPIPs PIC_¶P[°]C...C[†]PIP[°]C, P_ë
P_iC_¶P_sC, P_ëP_iP_sPeP[°]P_·P[°]PSPSC_¶ P_rP_s P_·P[°]C[†]C, P_sC[†]C[†]PIP[°]PSPSC_¶ P_»C- P_rP_sPeP[°]C—PSC[†],
P_·P[°]C[†]C, P_μC_¶P_μP_¶P_μPSPSC_¶ C, P[°] C- PSC_€C[†] PIC- P_rP_iP_sPIC- P_rPSC[†] C- PSC_„, P_sC_¶P_jP[°]C[†]C- C_H,
PSP[°]PIP_μP_rP_μPSC[†] P_i C- PSC[†]C, C_¶C[†]PeC[†]C- C— P_rP_»C_¶ P_jP_μP_rP_ëC_‡PSP_sP_iP_s
P_·P[°]C[†]C, P_sC[†]C[†]PIP[°]PSPSC_¶ P_»C- P_rP_sPeP[°]C—PSC[†] (P_rP_ëPI. C_¶P_sP_·P_rC- P_»)
B«P_μC_¶P_sC, P_ëP_iP_sPeP[°]P_·P[°]PSPSC_¶B»). P_sP_·C_‡P_ëPS P_»C- P_rP_sPeP[°]C—PSC[†] C[†] P_¶P_sP_rPSP_sP_jC[†]
PIP_ëP_iP_·P_rPeC[†] PSP_μ P_jP_sP_¶PSP[°] PIP_iP_sP_rP_ëC, P_ë PIPSC[†]C, C_¶C- C_€PSCH_{Ps}PIP_μPSPSP_s.

P_jC, P_ëP_»C- P_·P[°]C[†]C- C_¶ P_»C- PeP[°]C_¶C_¶CH_{Pe}PsPiPs P_·P[°]C[†]PsP_±C_‡.

P_ќP[°]P_rC...P_sP_rP_¶P_μPSPSC_¶ P_»C- PeP[°]C_¶C_¶CH_{Pe}PsPiPs P_·P[°]C[†]PsP_±C[†] C[†] P_·P_sPIPSC- C_€PSC[†]
C[†]P_μC_¶P_μP_rP_sPIP_ëC%_oP_μ C[†]P_»C- P_r P_·PIP_μC[†]C, P_ë P_rP_s P_jC- PSC- P_jC[†]P_jC[†]. P_ÿP_»C- P_r
P_·P[°]P_iP_sP_±C- P_iP[°]C, P_ë P_iP_sC, C_¶P[°]P_iP_»C_¶PSPSC_H P_»C- PeP[°]C_¶C_¶CH_{Pe}PsPiPs P_·P[°]C[†]PsP_±C[†] C[†]
PeP[°]PSP[°]P_»C- P_·P[°]C[†]C- P_NPS_€C[†] C[†]P_ëC[†]C, P_μP_jC[†] P[°]P_±P_s P_rP_sP_jP[°]C_€PSC- PIC- P_rC...P_sP_rP_ë.
P[°]C[†]P_rCH_·C_¶PeP_ëP_N PSP_μPIP_ëPePsC_¶P_ëC[†]C, P[°]PSP_ëP_N P_»C- PeP[°]C_¶C_¶CH_{Pe}P_ëP_N P_·P[°]C[†]C- P_±
P_iC- C[†]P_»C_¶ P_·P[°]PeC- PSC_‡P_μPSPSC_¶ P_»C- PeC[†]PIP[°]PSPSC_¶ P[°]P_±P_s C, P_μC_¶P_jC- PSC[†]
P_iC_¶P_ëP_rP[°]C, PSP_sC[†]C, C- C[†]P_»C- P_r P_iP_sPIP_μC_¶PSC[†]C, P_ë P_i P_sC_¶P_ëP_iC- PSP[°]P_»C_HPSC- P_N
C[†]P_iP[°]PePsPIC[†]C- P_iP_sC[†]C, P[°]C_‡P[°]P_»C_HPSP_ëPeC[†] (P_»C- PeP[°]C_¶C_¶ P[°]P_±P_s
C_„P[°]C_¶P_jP[°]C[†]P_μPIC, C[†]) P_rP_»C_¶ P_iC_¶P[°]PIP_ëP_»C_HPSP_sC— C[†]C, P_ëP_»C- P_·P[°]C[†]C- C— P_rP_»C_¶
C[†]C, P_ëP_»C- P_·P[°]C[†]C- C— PSP_μP_sP_±C...C- P_rPSP_s PIP_ëPePsC_¶P_ëC[†]C, P_sPIC[†]PIP[°]C, P_ë C, P[°]Pe
P_·PIP[°]PSC[†] B«C[†]P_ëC[†]C, P_μP_jC[†] P_·P_±P_sC_¶C[†] PIC- P_rC...P_sP_rC- PIB» P_iC_¶P_ë PSP[°]C_¶PIPSP_sC[†]C, C-
C, P[°]PePsC—.

*P—P[°]C[†]C, P_sC[†]C_‡PIP[°]PSPSC_¶ C_‡ P_iP_μC_¶C- P_sP_r PIP[°]P_iC- C, PSP_sC[†]C, C- P[°]P_±P_s
P_iP_sP_rC_‡PIP[°]PSPSC_¶ P_iC_¶C_‡P_rP_rC_H.*

P[°]P_iC- C, PSC- C[†]C, C_H.

P_iP_μC_„C, C_¶C- P[°]PeC[†]P_sPS P_iC_¶P_sPSP_ëPeP[°]C[†] C_‡P_μC_¶P_μP_· P_iP_»P[°]C[†]P_μPSC, P[°]C_¶PSP_ëP_N
P_±P[°]C_¶б_¶™ C[†]C_¶. P_†C[†]PSC[†]C_HC, C_H P_sP_±P_jP_μP_¶P_μPSC- P_rP[°]PSC- C%_oP_sP_rP_s
P_·P[°]C[†]C, P_sC[†]C[†]PIP[°]PSPSC_¶ C[†]P_μC_„C, C_¶C- P[°]PeC[†]P_sPSC[†] PIP[°]P_iC- C, PSP_ëP_j P_¶C- PSP_ëP_j.
P[°]P_sC[†]P_»C- P_rP_¶P_μPSPSC_¶ PSP[°] C, PIP[°]C_¶P_ëPSP[°]C... PSP_μ C[†]PIC- P_rC_‡P[°]C, C_H P_iC_¶P_s

$P \pm P_{\mu} P \cdot \tilde{P} i P s C \Gamma P_{\mu} C \tilde{H} P_{\mu} P r P S C - P N_{\circ} P^{\circ} P \pm P s P s \tilde{P} i P s C \Gamma P_{\mu} C \tilde{H} P_{\mu} P r P e P s P i P^{\circ} P S P \tilde{e} P N_{\circ}$
 $C \in P e C - P r P \gg P \tilde{e} P i P \tilde{e} P N_{\circ} P i P \tilde{P} \gg P \tilde{e} P i P S P^{\circ} P_{\mu} P j P \pm C \tilde{H} C - P s P S / P i P \gg C - P r, P i P_{\mu} C \tilde{H} P \tilde{e} - C, P^{\circ}$
 $P i P s C \Gamma C, P S P^{\circ} C, P^{\circ} P \gg C \tilde{H} P S P \tilde{e} P N_{\circ} C \tilde{H} P s P \cdot P i P \tilde{e} C, P s P e. P_{\mu} C - P r C \ddagger P^{\circ} C \Gamma P i P^{\circ} P i C - C, P S P s C \Gamma C, C -,$
 $P \cdot P s P e C \tilde{H} P_{\mu} P j P^{\circ} C r P \ddagger C, C \tilde{H} P \tilde{e} P j P_{\mu} C \Gamma C, C \tilde{H} C -, C \ddagger P_{\mu} C, C, C \tilde{H} C - P^{\circ} P e C \Gamma P s P S P j P s P \P P S P^{\circ}$
 $P \cdot P^{\circ} C \Gamma C, P s C \Gamma P s P i C r P i P^{\circ} C, P \tilde{e}, P \gg P \tilde{e} C \in P_{\mu} C \P P e C \% P s P e P s C \tilde{H} P \tilde{e} C \Gamma C, C \tilde{H} P i P_{\mu} C \tilde{H} P_{\mu} P i P \tilde{e} C \% C r C$
 $C \tilde{H} P \tilde{e} P \cdot P \tilde{e} P e.$

$P^{\circ} P s P r C \acute{z} P i P^{\circ} P S P S C \P P i C \tilde{H} C \acute{z} P r P r C \tilde{H}.$

$P i P_{\mu} C, C, C \tilde{H} C - P^{\circ} P e C \Gamma P s P S P i C \tilde{H} P s P S P \tilde{e} P e P^{\circ} C$ $C r P i C \tilde{H} C r P r P S P_{\mu} P j P s P \gg P s P e P s C r$
 $P S P \tilde{e} P \cdot C \tilde{H} P e P \tilde{e} C \dots P e P s P S C \ddagger P_{\mu} P S C, C \tilde{H} P^{\circ} C \ddagger C - C \P C \dots, P^{\circ} P \gg P_{\mu} P i C \tilde{H} P \tilde{e} P \cdot P^{\circ} C \Gamma C, P s C \Gamma C r P i P^{\circ} P S P S C -$
 $P i C \tilde{H} P_{\mu} P i P^{\circ} C \tilde{H} P^{\circ} C, C r C r C, P_{\mu} C \tilde{H} P^{\circ} P i P_{\mu} P i C, P \tilde{e} C \ddagger P S P \tilde{e} C \dots P r P s P \cdot P^{\circ} C \dots P S P_{\mu}$
 $P s C \ddagger C - P e C r C$ $C, C \tilde{H} C \Gamma C \P P \P P s P r P S P s P i P s P i P \tilde{P} \gg P \tilde{e} P i C r P S P^{\circ} P i C \tilde{H} C r P r P S P \tilde{e} C \dots$
 $P S P_{\mu} P j P s P i P \gg C \P C, P_{\mu} C \tilde{H} P s C, P_{\mu} P S P_{\mu} P j P s P \P P S P^{\circ} P i P \tilde{e} P e P \gg C \tilde{H} C \ddagger P^{\circ} C, P \tilde{e} C \tilde{H} P \tilde{e} P \cdot P \tilde{e} P e$
 $C \tilde{H} P s P \cdot P i P \tilde{e} C, P e C r P r C - P^{\circ} C \tilde{H} P_{\mu} C - C, P^{\circ} P i C \tilde{H} P \tilde{e} P \pm P e P s P i P s C - C - P S C, P_{\mu} P e C \ddagger C - C -$
 $C \Gamma P \gg P \tilde{e} P \cdot P s P i P \tilde{e} C \dots P s P \pm P s P \gg P s P S P s P e. P \tilde{Y} P \gg C - P r P i C \tilde{H} P^{\circ} C \dots P s P i C r P i P^{\circ} C, P \tilde{e}$
 $P j P s P \P P \gg P \tilde{e} P i C - C \Gamma C, C \tilde{H} C \Gamma P_{\mu} P S C \Gamma P \tilde{e} P \pm C - P \gg C - P \cdot P^{\circ} C \ddagger C - C - P_{\mu} P s C, C \tilde{H} C - P \pm P S P s$
 $P i C \tilde{H} P \tilde{e} P N_{\circ} P S C \P C, P \tilde{e} C \tilde{H} C - C \in P_{\mu} P S P S C \P C \% P s P r P s P i C \tilde{H} P \tilde{e} P i P \tilde{e} P S P_{\mu} P S P S C \P C$
 $P i P s P r C r P i P^{\circ} P S P S C \P C P i C \tilde{H} C r P r P r C \tilde{H} P^{\circ} P \pm P s P i C \tilde{H} P \tilde{e} P i P \tilde{e} P S P_{\mu} P S P S C \P C / P i C - P r P j P s P i P \tilde{e} P i C - P r$
 $P \cdot P^{\circ} C \Gamma C, P s C \Gamma C r P i P^{\circ} P S P S C \P C C \ddagger P_{\mu} C, C, C \tilde{H} C - P^{\circ} P e C \Gamma P s P S C r P \cdot C r C \tilde{H} P^{\circ} C \dots C r P i P^{\circ} P S P S C \P C P j$
 $P e P s C \tilde{H} P \tilde{e} C \Gamma C, C - P i C - P r P i C \tilde{H} C r P r P S P s P i P s P i P s P r C r P i P^{\circ} P S P S C \P C P r P \gg C \P C P r P \tilde{e} C, P \tilde{e} P S P \tilde{e} C, P^{\circ}$
 $P e P s C \tilde{H} P \tilde{e} C \Gamma C, C - P i C - P r C, P_{\mu} C \tilde{H} P^{\circ} P i C - C - P r P \gg C \P C P \P C - P S P e P \tilde{e}.$

$P \propto P_{\mu} C \tilde{H} C, P \tilde{e} P \gg C \tilde{H} P S C - C \Gamma C, C \tilde{H}.$

$P j P r P s C \Gamma P \gg C - P r P \P P_{\mu} P S P S C \P C \dots C \tilde{H} P_{\mu} P i C \tilde{H} P s P r C r P e C, P \tilde{e} P i P S P s C - C, C r P S P e C \ddagger C - C - P S P_{\mu}$
 $P \pm C r P \gg P s P i P \tilde{e} C \P i P \gg P_{\mu} P S P s P s P \cdot P S P^{\circ} P e P S P_{\mu} P \pm P^{\circ} P \P P^{\circ} P S P s P i P s P i P \tilde{P} \gg P \tilde{e} P i C r P S P^{\circ}$
 $C \ddagger P s P \gg P s P i C - C \ddagger C r P^{\circ} P \pm P s P \P C - P S P s C \ddagger C r C, P_{\mu} C \tilde{H} C, P \tilde{e} P \gg C \tilde{H} P S C - C \Gamma C, C \tilde{H}.$

*$P - P r P^{\circ} C, P S C - C \Gamma C, C \tilde{H} P i P \tilde{P} \gg P \tilde{e} P i P^{\circ} C, P \tilde{e} P S P^{\circ} C \in P i P \tilde{e} P r P e C - C \Gamma C, C \tilde{H} C \tilde{H} P_{\mu} P^{\circ} P e C \ddagger C - C - P i C \tilde{H} P \tilde{e}$
 $P e P_{\mu} C \tilde{H} C \acute{z} P i P^{\circ} P S P S C - P^{\circ} P i C, P s C, C \tilde{H} P^{\circ} P S C \Gamma P i P s C \tilde{H} C, P s P j P^{\circ} P \pm P s C - P S C \in P \tilde{e} P j P \tilde{e}$
 $P j P_{\mu} C \dots P^{\circ} P S C - P \cdot P j P^{\circ} P j P \tilde{e}.$*

$P' C - P r P i P s P i C - P r P S P \tilde{e} C \dots P r P s C \Gamma P \gg C - P r P \P P_{\mu} P S C \tilde{H} P S P_{\mu} P i C \tilde{H} P s P i P s P r P \tilde{e} P \gg P \tilde{e}.$ $P j$
 $P \cdot P i \tilde{b} \tilde{H}^{\text{TM}} C \P P \cdot P e C r P \cdot P j P s P \P P \gg P \tilde{e} P i C - C \Gamma C, C \tilde{H} P i P \tilde{e} P S P \tilde{e} P e P S P_{\mu} P S P S C \P C C, P^{\circ} P e P \tilde{e} C \dots$
 $P i P s P \pm C - C \ddagger P S P \tilde{e} C \dots C \tilde{H} P_{\mu} P^{\circ} P e C \ddagger C - P N_{\circ}, C \P P e P \cdot P^{\circ} P i P^{\circ} P j P s C \tilde{H} P s C \ddagger P_{\mu} P S P S C \P C,$
 $P \tilde{Y} C r P \gg C \tilde{H} P \pm P^{\circ} P e C, P s P j P^{\circ} P e C \Gamma P j P s P \P P_{\mu} P i P \tilde{P} \gg P \tilde{e} P i P^{\circ} C, P \tilde{e} P S P^{\circ} P \cdot P r P^{\circ} C, P S C - C \Gamma C, C \tilde{H}$
 $P e P_{\mu} C \tilde{H} C r P i P^{\circ} C, P \tilde{e} C, C \tilde{H} P^{\circ} P S C \Gamma P i P s C \tilde{H} C, P S P \tilde{e} P j P \tilde{e} P \cdot P^{\circ} C \Gamma P s P \pm P^{\circ} P j P \tilde{e} P^{\circ} P \pm P s$
 $P i C \tilde{H} P^{\circ} C \ddagger C \tilde{H} P i P^{\circ} C, P \tilde{e} P \cdot C - C \Gamma P e P \gg P^{\circ} P r P S P \tilde{e} P j P \tilde{e} P j P_{\mu} C \dots P^{\circ} P S C - P \cdot P j P^{\circ} P j P \tilde{e} P_{\mu} P^{\circ} C \ddagger C - C'' P S C, P^{\circ} P j$
 $C \Gamma P \gg C - P r P \pm C r C, P \tilde{e} P s P \pm P_{\mu} C \tilde{H} P_{\mu} P \P P S P \tilde{e} P j P \tilde{e} P i C \tilde{H} P \tilde{e} P e P_{\mu} C \tilde{H} C r P i P^{\circ} P S P S C -$
 $P^{\circ} P i C, P s C, C \tilde{H} P^{\circ} P S C \Gamma P i P s C \tilde{H} C, P s P j P^{\circ} P \pm P s C \tilde{H} P s P \pm P s C, C - P \cdot C - P S C \in P \tilde{e} P j P \tilde{e}$
 $P j P_{\mu} C \dots P^{\circ} P S C - P \cdot P j P^{\circ} P j P \tilde{e}.$

$P \tilde{Y} P i P s C \Gamma C - P \pm P \cdot P^{\circ} C \Gamma C, P s C \Gamma C \acute{z} P i P^{\circ} P S P S C \P C C, P^{\circ} P r P s P \cdot P \tilde{e}.$

$P - P^{\circ} C \Gamma C, P s C \Gamma P s P i C r P i P^{\circ} C, P \tilde{e} P i P S C r C, C \tilde{H} C - C \in P S C \tilde{H} P s P i P_{\mu} P S P S P s P^{\circ} P \pm P s$
 $P i P S C r C, C \tilde{H} C - C \in P S C \tilde{H} P s P j \tilde{b} \tilde{H}^{\text{TM}} C \P P \cdot P s P i P s. P_{\mu} P_{\mu} C \tilde{H} P_{\mu} P r P \cdot P^{\circ} C \Gamma C, P s C \Gamma C r P i P^{\circ} P S P S C \P C P j$
 $P i C \tilde{H} P s P i P s P r C \P C, C \tilde{H} C \in P e C - C \tilde{H} P S C - P i C \tilde{H} P s P \pm P \tilde{e} P S P^{\circ} C \ddagger C r C, P \gg P \tilde{e} P i C - C \Gamma C, C \tilde{H} P r P s$
 $P^{\circ} P S C, P \tilde{e} P \pm C - P s C, P \tilde{e} P e P^{\circ} C, P^{\circ} P r P s P \gg C - P r P s P e P^{\circ} C - P S C r.$

P"PsCḥPsCfP»C- C- PrC-C,Pë PIC-PePsPj PIC-Pr 12 CḥPsPeC-PI: PīPs 1-2 Pi (Cf
PīPμCḥPμCḥP°C...CfPIP°PSPSC- PSP°B C†PμC,,C,CḥC-P°PeCfPsPS) 1 CḥP°P· PSP° PrPsP±Cf
(PePsP¶PSC-B B B 24 PiPsPrPëPSPë). Pj C,CfP¶P¶PePëC... PIPëPīP°PrPeP°C... P°P±Ps
C-PSC,,PμPeC†C-CfC..., P·P±CfPrPSPëPePë CfPePëC... PjP°CḥC,Cḥ P·PSPëP¶PμPSCf
C†CfC,P»PëPIC-CfC,Cḥ PrPs C†PμC,,C,CḥC-P°PeCfPsPSCf, PrPsP±PsPICf PrPsP·Cf PjPsP¶PSP°
P·P±C-P»CḥC€CfPIP°C,Pë PrPs 4 Pi (Cf PīPμCḥPμCḥP°C...CfPIP°PSPSC- PSP°B
C†PμC,,C,CḥC-P°PeCfPsPS).

PkPsPIPSPSP°CḥPsPrP¶PμPSC-, PSPμPjPsPIP»CfC,P° C,P° PrC-C,Pë PIC-PePsPj PrPs 12
CḥPsPeC-PI.

PkPëP¶C†Pμ PSP°PIPsPrCfC,CḥCfCf CḥPμPePsPjPμPSPPrPsPIP°PSC- PrPsP·Pë PrP»Cf
P·P°CfC,PsCfCfPIP°PSPSCf 1 CḥP°P· PSP° PrPsP±Cf.

PkPsPIPSPSP°CḥPsPrP¶PμPSC- (PrPs 14 PrPSC-PI). P"PsP·Pë PSP°PIPμPrPμPSC- P·
CḥPsP·CḥP°C...CfPSPeCf PSP° C†PμC,,C,CḥC-P°PeCfPsPS: 20-50 PjPi/PePi PjP°CfPë C,C-P»P°

1 CḥP°P· PSP° PrPsP±Cf. P"PsP±PsPIP° PrPsP·P° PSPμ PjP°C" PīPμCḥPμPIPëC%oCfPIP°C,Pë 50
PjPi/PePi PjP°CfPë C,C-P»P°. PμCḥPë PIPëP·PSP°C†PμPSPSC- PrPsP·Pë PīCḥPμPīP°CḥP°C,Cf
PrP»Cf PrPsPSPsC€PμPSPëC... C- PSPμPrPsPSPsC€PμPSPëC... PrC-C,PμPNë
PIC-PrPjC-PSPSPsCfC,PμPNë PSPμPjP°C".

PiPμC,,C,CḥC-P°PeCfPsPS PīCḥPsC,PëPīPsPeP°P·P°PSPëPNë PrP»Cf P·P°CfC,PsCfCfPIP°PSPSCf
PSPsPIPSPSP°CḥPsPrP¶PμPSPëPj PIC-PePsPj ≤ 28 PrPSC-PI PīCḥPë
PSPμPsP±C...C-PrPSPsCfC,C- (P°P±Ps PsC†C-PeCfPIP°PSC-PNë PSPμPsP±C...C-PrPSPsCfC,C-)
P»C-PeCfPIP°PSPSCf PIPSCfC,CḥC-C€PSCḥPsPIPμPSPSPëPjPë CḥPsP·C†PëPSP°PjPë, CfPeC-
PjC-CfC,CfC,Cḥ PeP°P»CḥC†C-PNë, Cf C,PsPjCf C†PëCfP»C- PīPsCfC,C-PNëPSC-
PIPSCfC,CḥC-C€PSCḥPsPIPμPSPSC- PIP»PëPIP°PSPSCf, CfPeC- PjC-CfC,CfC,Cḥ
PeP°P»CḥC†C-PNë, PSP°PīCḥPëPeP»P°Pr, PīP°CḥPμPSC,PμCḥP°P»CḥPSPμ
C...P°CḥC†CfPIP°PSPSCf, Cf P·PīBḥ™ CfP·PeCf P· CḥPëP·PëPePsPj PIPëPSPëPePSPμPSPSCf
PīCḥPμC†PëPīC-C,P°C,C-PI PeP°P»CḥC†C-C"PIPëC... CfPsP»PμPNë C†PμC,,C,CḥC-P°PeCfPsPSCf
(PrPëPI CḥPsP·PrC-P» B«PμCḥPsC,PëPīPsPeP°P·P°PSPSCfB»).

PkPsPIPSPSP°CḥPsPrP¶PμPSC- PIC-PePsPj PIC-Pr 15 PrPSC-PI C,P° PrC-C,Pë PIC-PePsPj PrPs 12
CḥPsPeC-PI. P"PsP·Pë PSP°PIPμPrPμPSC- P· CḥPsP·CḥP°C...CfPSPeCf PSP°
C†PμC,,C,CḥC-P°PeCfPsPS: 20-80 PjPi/PePi PjP°CfPë C,C-P»P° 1 CḥP°P· PSP° PrPsP±Cf.
P"C-C,CfPj P· PjP°CfPsCḥ C,C-P»P° PīPsPSP°Pr 50 PePi PīCḥPëP·PSP°C†P°C,Pë PrPsP·Pë PrP»Cf
PrPsCḥPsCfP»PëC...

P—P°PīP°P»CḥPSP° PrPsP±PsPIP° PrPsP·P° PrP»Cf PrC-C,PμPNë PSPμ PjP°C"
PīPμCḥPμPIPëC%oCfPIP°C,Pë 2 Pi (Cf PīPμCḥPμCḥP°C...CfPIP°PSPSC- PSP°
C†PμC,,C,CḥC-P°PeCfPsPS).

P'PSCfC,CḥC-C€PSCḥPsPIPμPSPSC- PIPIPμPrPμPSPSCf PrPsP·Pë PIPëC%oPμ 50 PjPi/PePi (Cf
PīPμCḥPμCḥP°C...CfPIP°PSPSC- PSP° C†PμC,,C,CḥC-P°PeCfPsPS)
P·PrC-PNëCfPSCḥCḥC,CḥCfCf PeCḥP°PīP»PëPSPSPs, PīPsPIC-P»CḥPSPs (PīCḥPsC,CfPiPsPj
30-60 C...PIPëP»PëPS).

PμP°C†C-C"PSC,Pë P»C-C,PSCHḥPsPiPs PIC-PeCf. PμP°C†C-C"PSC,Pë P»C-C,PSCHḥPsPiPs
PIC-PeCf PePsCḥPμPeC†C-Cf PrPsP·Pë PSPμ PīPsC,CḥC-P±PSP°.

PḥCḥPëPIP°P»C-CfC,Cḥ P»C-PeCfPIP°PSPSCf P·P°P»PμP¶PëC,Cḥ PIC-Pr PīPμCḥPμP±C-PiCf
P·P°C...PIPSCḥPIP°PSPSCf. PμC-CfP»Cf C,PsPiPs CfPe PSPsCḥPjP°P»C-P-CfC"C,CḥCfCf

PiPsPeP°P·PSPePe C, PμPjPiPμCḡP°C, CíCḡPē C, C-P»P° C, P° CḡPμP·CíP»CHC, P°C, Pē
P°PSP°P»C-P·C-PI PiC-PrC, PIPμCḡPrCḡC, CH PIC-PrCíCíC, PSC-CíC, CH P·P±CíPrPSPePeP°,
PSPμPsP±C...C-PrPSPs PiCḡPsPrPsPIP¶PēC, Pē P·P°CíC, PsCíCíPIP°PSPSCḡ PiCḡPμPiP°CḡP°C, Cí
C%oPμ PiCḡPsC, CḡPiPsPj C%oPsPSP°PNēPjPμPSC€Pμ 48-72 PiPsPrPēPS.

PḡPsPjP±C-PSPsPIP°PSP° C, PμCḡP°PiC-Cḡ.

P'ḡP°C...PsPICíCḡC±Pē PrP°PSC- C%oPsPrPs PIP·P°C" PjPsPiPsCíPēP»PμPSPSCḡ PrC-C—
PiCḡPē PsPrPSPsC±P°CíPSPsPjCí P·P°CíC, PsCíCíPIP°PSPSC- C†PμC,,C, CḡC-P°PeCíPsPSCí C, P°
P°PjC-PSPsPiP»C-PePsP·PēPrC-PI PIC-PrPSPsCíPSPs P±P°PiP°C, CHPsC...
PiCḡP°PjPSPμPiP°C, PēPIPSPēC... PjC-PeCḡPsPsCḡPiP°PSC-P·PjC-PI, C—C... PjPsP¶PSP°
P·P°CíC, PsCíCíPICíPIP°C, Pē PiCḡPē C, CḡP¶PePēC..., P·P°PiCḡPsP·P»PēPIPēC... PrP»Cḡ
P¶PēC, C, Cḡ C-PSC,, PμPeC†C-CḡC..., CíPiCḡPēC±PēPSPμPSPēC...B *Pseudomonas aeruginosa*.
PḡP»Pμ PiCḡPē C†CHPsPjCí CíP»C-Pr P·PIP°P¶P°C, Pē PSP° C, Pμ, C%oPs PiC-PrPIPēC%oPμPSP°
PμC,, PμPeC, PēPIPSC-CíC, CH C, P°PePēC... PePsPjP±C-PSP°C†C-PNē PSPμ P·P°PIP¶PrPē
PiPμCḡPμPrP±P°C±CíPIP°PSP°. PḡPμCḡPμP· C,, C-P·PēC±PSCí PSPμCíCíPjC-CíPSC-CíC, CH
C†PμC,, C, CḡC-P°PeCíPsPSCí C, P° P°PjC-PSPsPiP»C-PePsP·PēPrC-PI C—C... CíP»C-Pr
PIIPsPrPēC, Pē CḡPsP·PrC-P»CHPSPs Cí CḡPμPePsPjPμPSPrPsPIP°PSPēC... PrP»Cḡ PSPēC...
PrPsP·P°C....

P"PsP·C¿PIP°PSPSCḡ PI PsCíCíPsP±P»PēPIPēC... PIPēPiP°PrPeP°C....

PḡPμPSC-PSPiC-C.

PμCḡPē P±P°PeC, PμCḡC-P°P»CHPSPsPjCí PjPμPSC-PSPiC-C, C- Cí PSPμPjPsPIP»CḡC, C-
PrC-C, PμPNē PIC-PePsPj PIC-Pr 15 PrPSC-PI PrPs 12 CḡPsPeC-PI P»C-PeCíPIP°PSPSCḡ
CḡPsP·PiPsC±PēPSP°C, Pē P· PrPsP·Pē 100 PjPi/PePi (P°P»Pμ PSPμ P±C-P»CHC€Pμ 4 Pi Cí
PiPμCḡPμCḡP°C...CíPIP°PSPSC- PSP° C†PμC,,C, CḡC-P°PeCíPsPS) 1 CḡP°P· PSP° PrPsP±Cí. PiPe
C, C-P»CHPePē P·P±CíPrPSPePe P±CíPrPμ C-PrPμPSC, PēC,, C-PePsPIP°PSPēPNē, P° PNēPsPiPs
C±CíC, P»PēPIC-CíC, CH PIPēP·PSP°C±PμPSP°, PrPsP·Cí PjPsP¶PSP° PIC-PrPiPsPIC-PrPSPs
P·PjPμPSC€PēC, Pē. PḡP°PNēPeCḡP°C%oC- CḡPμP·CíP»CHC, P°C, Pē PrPsCíCḡPiP°P»PēCíCḡ
PiCḡPē C, P°PeC-PNē C, CḡPēPIP°P»PsCíC, C- P»C-PeCíPIP°PSPSCḡ.

Neisseria meningitidis B B B B B B B B 4 PrPSC-

Streptococcus pneumoniae B B B 7 PrPSC-PI

Haemophilus influenzae B B B B B B B 6 PrPSC-PI

PḡC¿C, P»PēPIC- Enterobacteriaceae B 10-14 PrPSC-PI.

P'PsCḡPμP»C-PsP· P»P°PNēPjP°: PrPsCḡPsCíP»PēPj C, P° PrC-C, CḡPj Bḡ" 50 PjPi/PePi
(PSP°PNēPIPēC%oP° PrPsP±PsPIP° PrPsP·P° Bḡ" 2 Pi) 1 CḡP°P· PSP° PrPsP±Cí PiCḡPsC, CḡPiPsPj
14 PrPSC-PI.

P"PsPSPsCḡPμCḡ, CíPiCḡPēC±PēPSPμPSP° C€C, P°PjP°PjPē, C%oPs CíC, PIPsCḡCḡCḡC, CH
P°P±Ps PSPμ CíC, PIPsCḡCḡCḡC, CH PiPμPSC-C†PēP»C-PSP°P·Cí: PsPrPSPsCḡP°P·PsPIPμ
PIPSCíC, CḡC-C€PSCḡPsPjBḡ™ CḡP·PsPIPμ PIPIPμPrPμPSPSCḡ 250 PjPi PiCḡPμPiP°CḡP°C, Cí.

PμCḡPsC,, C-P»P°PeC, PēPeP° PiC-CíP»CḡPsPiPμCḡP°C†C-PNēPSPēC... C-PSC,, PμPeC†C-PNē.
P"PsP·Pē PSP°PIPμPrPμPSC- P· CḡPsP·CḡP°C...CíPSPeCí PSP° C†PμC,,C, CḡC-P°PeCíPsPS.
P—P°P»PμP¶PSPs PIC-Pr CíC, CíPiPμPSCḡ CḡPēP·PēPeCí CḡPsP·PIPēC, PeCí
C-PSC,, PμPeC†C-C—, PIIPsPrPēC, Pē 1-2 Pi (Cí PiPμCḡPμCḡP°C...CíPIP°PSPSC- PSP°

C†PμC,,C,CTHC-P°PeCΓPsPS) PīCTHPμPīP°CTHP°C,Cr PsPrPSPsCTHP°P·PsPIPsB P·P° 30-90
C...PIPēP»PēPS PrPs PīPsC†P°C,PeCr PsPīPμCTHP°C†C-C—. PμCTHPē PsPīPμCTHP°C†C-CIIC... PSP°
C,PsPICΓC,C-PNē C- PīCTHCIPjC-PNē PePēC€C†C- PsPrPSPsC†P°CΓPSPs (P°P»Pμ
CTHPsP·PrC-P»CHbPSPs) PIIPsPrPēC,Pē PīCTHPμPīP°CTHP°C, PsPrPSPsPīPs P· 5-
PSC-C,CCTHPsC-PjC-PrP°P·PsP»C-PI (PSP°PīCTHPēPeP»P°Pr PsCTHPSC-PrP°P·PsP»).

PμPsCTHCΓC€PμPSPSCII C,,C†PSPeC†C-C— PSPēCTHPsPe. PkPμ PīPsC,CTHPμP±C†C”
P·PjPμPSC€PμPSPSCII PrPsP·Pē, CIIPeC%Ps C,,C†PSPeC†C-CI PīPμC†C-PSPePē
P·P°P»PēC€P°C”C,CHbCΓCII PSPsCTHPjP°P»CHbPSPsCTH. P>PēC€Pμ Cr PIPēPīP°PrPeP°C...
PSPēCTHPePsPIPsC— PSPμPrPsCΓC,P°C,PSPsCΓC,C- Cr
PīPμCTHPμPrC,PμCTHPjC-PSP°P»CHbPSC-PNē CΓC,P°PrC-C— P· PeP»C-CTHPμPSCΓPsPj
PeCTHPμP°C,PēPSC-PSCr PjPμPSC€Pμ 10 PjP»/C...PI PrPsP±PsPIP° PrPsP·P° PSPμ PjP°C”
PīPμCTHPμPIPēC%CrPIP°C,Pē 2 Pi (Cr PīPμCTHPμCTHP°C...C†PIP°PSPSC- PSP°
C†PμC,,C,CTHC-P°PeCΓPsPS).

PΓPIPsCTHPēPj, CIIPeC- P·PSP°C...PsPrCIIC,CHbCΓCII PSP° PrC-P°P»C-P·C-, PSPμPjP°C”
PīPsC,CTHPμP±Pē Cr PrPsPrP°C,PePsPIPsPjCr PIIPμPrPμPSPSC- PīCTHPμPīP°CTHP°C,Cr
PīC-CΓP»CI PrC-P°P»C-P·Cr, P°P»Pμ PSPμPsP±C...C-PrPSPs PePsPSC,CTHPsP»CHbPIP°C,Pē
PePsPSC†PμPSC,CTHP°C†C-CTH C†PμC,,C,CTHC-P°PeCΓPsPSCr Cr CΓPēCTHPsPIP°C,C†C- PeCTHPsPIC-
(PīCTHPē PSPμPsP±C...C-PrPSPsCΓC,C- PePsCTHPēPīC†PIP°C,Pē PrPsP·Cr), PsCΓPeC-P»CHbPePē
C€PIPēPrPeC-CΓC,CHb PIPēPIPμPrPμPSPSCII Cr C,P°PePēC... C...PIPsCTHPēC... PjPsP¶Pμ
P·PSPēP¶C†PIP°C,PēCΓCII.

P”PsP±PsPIP° PrPsP·P° PŸC†P»CHbP±P°PeC,PsPjP°PeCΓC† Cr C...PIPsCTHPēC..., CIIPeC-
P·PSP°C...PsPrCIIC,CHbCΓCII PSP° PrC-P°P»C-P·C-, PSPμ PjP°C” PīPμCTHPμPIPēC%CrPIP°C,Pē 2
Pi.

PμPsCTHCΓC€PμPSPSCII C,,C†PSPeC†C-C— PīPμC†C-PSPePē. PkPμ PīPsC,CTHPμP±C†C”
P·PjPμPSC€PμPSPSCII PrPsP·Pē, CIIPeC%Ps C,,C†PSPeC†C-CI PSPēCTHPsPe
P·P°P»PēC€P°C”C,CHbCΓCII PSPsCTHPjP°P»CHbPSPsCTH.

PŸCIIP¶PeP° PSPēCTHPePsPIP° P°P±Ps PīPμC†C-PSPePsPIP° PSPμPrPsCΓC,P°C,PSC-CΓC,CHb

PŸP»C-Pr CTHPμPīC†P»CIICCTHPSPs PIPēP·PSP°C†P°C,Pē PePsPSC†PμPSC,CTHP°C†C-CTH
C†PμC,,C,CTHC-P°PeCΓPsPSCr Cr PīP»P°P·PjC- PeCTHPsPIC- C,P° PīCTHPsPIPsPrPēC,Pē
PePsCTHPμPeC†C-CTH PrPsP·Pē PīCTHPμPīP°CTHP°C,Cr Cr CTHP°P·C- PSPμPsP±C...C-PrPSPsCΓC,C-,
PsCΓPeC-P»CHbPePē CTHC-PIPμPSCb PIPēPIPμPrPμPSPSCII Cr C,P°PePēC... PīP°C†C-C”PSC,C-PI
PjPsP¶Pμ P·PSPēP¶C†PIP°C,PēCΓCII.

PŸPīPsCΓC-P± CTHPsP·C†PēPSPμPSPSCII C,P° PIIPμPrPμPSPSCII. P—P°PīP°P»CHbPSPμ
PīCTHP°PIPēP»Ps - CTHPsP·C†PēPS CΓP»C-Pr PIPēPePsCTHPēCΓC,P°C,Pē PsPrCTHP°P·Cr PīC-CΓP»CI
PīCTHPēPīPsC,C†PIP°PSPSCII. P PsP·C†PēPS P·P±PμCTHC-PiP°C” CΓPIPsCTH C,,C-P·PēC†PSCr C-
C...C-PjC-C†PSCr CΓC,P°P±C-P»CHbPSC-CΓC,CHb PīCTHPsC,CIPiPsPj 6 PīPsPrPēPS PīCTHPē
PeC-PjPSP°C,PSC-PNē C,PμPjPīPμCTHP°C,CrCTHC- P°P±Ps PīCTHPsC,CIPiPsPj 24 PīPsPrPēPS PīCTHPē
C,PμPjPīPμCTHP°C,CrCTHC- 5 B°PŸ. P—P°P»PμP¶PSPs PIC-Pr PePsPSC†PμPSC,CTHP°C†C-C— C-
C,PμCTHPjC-PSCr P·P±PμCTHC-PiP°PSPSCII PePsP»C-CTH CTHPsP·C†PēPSCr PjPsP¶Pμ
P·PjC-PSCbPIP°C,PēCΓCII PIC-Pr P±P»C-PrPs-P¶PsPIC,PsPīPs PrPs P±C†CTHC€C,PēPSPsPIPsPīPs.
P—PjC-PSP° PePsP»CHbPsCTHC†B PSPμ PIPiP»PēPIP°C” PSP° PμC,,PμPeC,PēPIPSC-CΓC,CHb
P°P±Ps PīPμCTHPμPSPsCΓPēPjC-CΓC,CHb PīCTHPμPīP°CTHP°C,Cr.

P”P»CI PIPSCrC,CTHC-C€PSCbPsPjB™ CIIP·PsPIPēC... C-PSb™ C”PeC†C-PNē PIPjC-CΓC,
C,,P»P°PePsPSP° CTHPsP·C†PēPSPēC,Pē Cr 3,5 PjP» 1 % CTHPsP·C†PēPSCr P»C-PrPsPeP°C—PSCr

P°P±Ps

5 PjP»B PIPsPrPë PrP»CŁ C-PSbĤ™ C"PeC†C-PNë; C-PSbĤ™ C"PeC†C-CĤ CĤPsP±PëC, Pë Cr C†PμPSC, CĤ PIPμP»PëPePsPiPs PjbĤ™ CŁP·P°. P PμPePsPjPμPSPPrCrC" C, CĤC†CŁ PIPiPsPrPëC, Pë PSPμ P±C-P»CĤCëPμ 1 Pi PI PsPrPSCr PrC-P»CŁPSPëCr.

PİPeC%Ps P»C-PrPsPeP°C—PS P·P°C†C, PsC†PsPICrPIP°C, Pë PI CŁPePsC†C, C- CĤPsP·C†PëPSPSPëPeP°, PsC, CĤPëPjP°PSPëPNë CĤPsP·C†PëPS PSC-PePsP»Pë PSPμ C†P»C-Pr PIPiPsPrPëC, Pë PIPSCrC, CĤC-CëPSCĤPsPIPμPSPSPs (PrPëPI. CĤPsP·PrC-P» B«PμCĤPsC, PëPİPsPeP°P·P°PSPSCŁB»). P" P»CŁ PrPμC, P°P»CĤPSPSC— C-PSC,, PsCĤPjP°C†C-C— CĤPμPePsPjPμPSPPrCrC" C, CĤC†CŁ PsP·PSP°PNëPsPjPëC, PëC†CŁ P· C-PSC†C, CĤCrPeC†C-C" CĤ PrP»CŁ PjPμPrPëC†PSPsPiPs P·P°C†C, PsC†CrPIP°PSPSCŁ P»C-PrPsPeP°C—PSCr.

P—P°C†C, PsC†CrPIP°PSPSCŁ P»C-PrPsPeP°C—PSCr PİPμCĤPμPrP±P°C†P°C" PİPsPİPμCĤPμPrPSC" PİCĤPsPIPμPrPμPSPSCŁ PİCĤPsP±Pë PrP»CŁ PIPëP·PSP°C†PμPSPSCŁ C-PSPPrPëPIC-PrCrP°P»CĤPSPSC— C†CrC, P»PëPIPSC†C, C- PrPs C†CĤPsPiPs P»C-PeP°CĤC†CĤPePsPiPs P·P°C†PsP±Cr.

P" P»CŁ PIPSCrC, CĤC-CëPSCĤPsPIPμPSPSPëC... C-PSbĤ™ C"PeC†C-PNë PIPjC-C†C,
C,, P»P°PePsPSP° CĤPsP·C†PëPSPëC, Pë Cr 10 PjP» PIPsPrPë PrP»CŁ C-PSbĤ™ C"PeC†C-PNë;
PIPiPsPrPëC, Pë PIPSCrC, CĤC-CëPSCĤPsPIPμPSPSPs PİPsPIC-P»CĤPSPs (P·P° 2-4
C...PIPëP»PëPSPë).

P'PSCrC, CĤC-CëPSCĤPsPIPμPSPSP° C-PSC,, CrP·C-CŁ PjP°C" C, CĤPëPIP°C, Pë PSPμ PjPμPSCëPμ 30 C...PIPëP»PëPS. P" P»CŁ PİCĤPëPiPsC, CrPIP°PSPSCŁ CĤPsP·C†PëPSCr CĤPsP·C†PëPSCŁC, Pë PIPjC-C†C, C,, P»P°PePsPSP°B Cr 40 PjP» PsPrPSPsPiPs P·PSP°C†C, CrPİPSPëC... C-PSC,, CrP·C-PNëPSPëC... CĤPsP·C†PëPSC-PI, C%Ps PSPμ PjC-C†C, CŁC, CĤ C-PsPSC-PI PeP°P»CĤC†C-CĤ:

-B 5 % CĤPsP·C†PëPS PİP»CĤPePsP·Pë;

-B 0,9 % CĤPsP·C†PëPS PSP°C, CĤC-CĤ C...P»PsCĤPëPrCr;

-B 5 % CĤPsP·C†PëPS PİP»CĤPePsP·Pë 0,225 % CĤPsP·C†PëPS PSP°C, CĤC-CĤ C...P»PsCĤPëPrCr;

-B 5 % CĤPsP·C†PëPS PİP»CĤPePsP·Pë 0,9 % CĤPsP·C†PëPS PSP°C, CĤC-CĤ C...P»PsCĤPëPrCr;

-B B PIPsPrP° PrP»CŁ C-PSbĤ™ C"PeC†C-PNë.

PkPμ PjPsP¶PSP° PIPëPePsCĤPëC†C, PsPICrPIP°C, Pë CĤPsP·C†PëPSPSPëPePë, CŁPeC- PjC-C†C, CŁC, CĤ PeP°P»CĤC†C-PNë, C, P°PeC- CŁPe CĤPsP·C†PëPS P C-PSPiPμCĤP° P°P±Ps CĤPsP·C†PëPS P" P°CĤC, PjP°PSP°, PrP»CŁ CĤPsP·C†PëPSPμPSPSCŁ PŸCrP»CĤP±P°PeC, PsPjP°PeC†Cr Cr C,, P»P°PePsPSP°C... P°P±Ps PrP»CŁ CĤPsP·PIPμPrPμPSPSCŁ PIC-PrPSPsPIP»PμPSPsPiPs CĤPsP·C†PëPSCr PrP»CŁ PIPSCrC, CĤC-CëPSCĤPsPIPμPSPSPsPiPs PIPiPμPrPμPSPSCŁ Cr P·PIbĤ™ CŁP·PeCr P· PIC-CĤPsPiC-PrPSC-C†C, CĤ CrC, PIPsCĤPμPSPSCŁ PİCĤPμC†PëPİC-C, P°C, C-PI PeP°P»CĤC†C-C"PIPëC...

C†PsP»PμPNë C†PμC,, C, CĤC-P°PeC†PsPSCr. P'PëPSPëPePSPμPSPSCŁ PİCĤPμC†PëPİC-C, P°C, C-PI PeP°P»CĤC†C-C"PIPëC... C†PsP»PμPNë C†PμC,, C, CĤC-P°PeC†PsPSCr C, P°PePsP¶ PjPsP¶Pμ PIC-PrP±CrPIP°C, PëC†CŁ PİCĤPë P·PjC-CëCrPIP°PSPSC- PŸCrP»CĤP±P°PeC, PsPjP°PeC†Cr P· CĤPsP·C†PëPSP°PjPë, CŁPeC- PjC-C†C, CŁC, CĤ PeP°P»CĤC†C-PNë PI PsPrPSC-PNë C-PSC,, CrP·C-PNëPSC-PNë C†PëC†C, PμPjC- PrP»CŁ PIPSCrC, CĤC-CëPSCĤPsPIPμPSPSPsPiPs

PIPIP_μPrP_μPSPSC_Ц. PŸC_ГP»CHBP±P°PeC,PsPjP°PeC_Г PSP_μ PjPsP_ГPSP° PsPrPSPsC±P°C_ГPSPs
PIPIPsPrPëC,Pë

PIPSC_ГC,Ч_ГC-C€PSC_ГPsPIPIP_μPSPSPs P· Ч_ГPsP·C±PëPSP°PjPë, C_ЦPeC- PjC-C_ГC,C_ЦC,CH
PeP°P»CHC_ГC-PN_ë, C_Г C,PsPjC_Г C±PëC_ГP»C- P· C,Ч_ГPëPIP°P»PëPjPë C-PSC,,C_ГP·C-C_ЦPjPë,
C_ЦPeC- PjC-C_ГC,C_ЦC,CH PeP°P»CHC_ГC-PN_ë, PSP°P_ГЧ_ГPëPeP»P°Pr,
P_ГP°Ч_ГP_μPSC,P_μЧ_ГP°P»CHBPSP_μ C...P°Ч_ГC±C_ГPIP°PSPSC_Ц. PhPrPSP°Pe, P·P° PIPëPSC_ЦC,PePsPj
PSPsPIPsPSP°Ч_ГPsPrP_ГP_μPSPëC..., C_ГP_μC,,C,Ч_ГC-P°PeC_ГPsPSC,P°
PeP°P»CHC_ГC-PN_ëPIPjC-C_ГPSC- Ч_ГPsP·C±PëPSPë PjPsP_ГPSP° PIPIPsPrPëC,Pë
P_ГPsC_ГP»C-PrPsPIPsPSPs, C_ЦPeC%Ps C-PSC,,C_ГP·C-PN_ëPSC_Г C_ГPëC_ГC,P_μPjC_Г Ч_ГP_μC,P_μP»CHBPSPs
P_ГЧ_ГPsPjPëC,Pë PjC-P_Г C-PSC,,C_ГP·C-C_ЦPjPë C_ГC_ГPjC-C_ГPSPëPj Ч_ГPsP·C±PëPSPsPj (PrPëPI.
B«P·P·P°C”PjPsPrC-C_Ц P· C-PSC€PëPjPë P»C-PeP°Ч_ГC_ГCHPePëPjPë P·P°C_ГPsP±P°PjPë C,P°
C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PN_ëB»).

P”C-C,Pë.

P_μЧ_ГP_μP_ГP°Ч_ГP°C, P·P°C_ГC,PsC_ГPsPIC_ГC”C,CHC_ГC_Ц C_Г P_ГP_μPrC-P°C,Ч_ГPëC±PSC-PN_ë
P_ГЧ_ГP°PeC,PëC_ГC-.

P_ГPsPIPsPSP°Ч_ГPsPrP_ГP_μPSPëPj PIC-PePsPj ≤ 28 PrPSC-PI P_ГЧ_ГPsC,PëP_ГPsPeP°P·P°PSPëPN_ë
PrP»C_Ц P·P°C_ГC,PsC_ГC_ГPIP°PSPSC_Ц P_ГЧ_ГPë PSP_μPsP±C...C-PrPSPsC_ГC,C- (P°P±Ps
PsC±C-PeC_ГPIP°PSC-PN_ë PSP_μPsP±C...C-PrPSPsC_ГC,C-) P»C-PeC_ГPIP°PSPSC_Ц
PIPSC_ГC,Ч_ГC-C€PSC_ГPsPIPIP_μPSPSPëPjPë Ч_ГPsP·C±PëPSP°PjPë, C_ЦPeC- PjC-C_ГC,C_ЦC,CH
PeP°P»CHC_ГC-PN_ë, C_Г C,PsPjC_Г C±PëC_ГP»C- PIPSC_ГC,Ч_ГC-C€PSC_ГPsPIPIP_μPSPSC-
PIP»PëPIP°PSPSC_Ц, C_ЦPeC- PjC-C_ГC,C_ЦC,CH PeP°P»CHC_ГC-PN_ë, PSP°P_ГЧ_ГPëPeP»P°Pr,
P_ГP°Ч_ГP_μPSC,P_μЧ_ГP°P»CHBPSP_μ C...P°Ч_ГC±C_ГPIP°PSPSC_Ц, C_Г P·PI_Б™ C_ЦP·PeC_Г P·
Ч_ГPëP·PëPePsPj PIPëPSPëPePSP_μPSPSC_Ц P_ГЧ_ГP_μC_ГPëP_ГC-,P°C,C-PI PeP°P»CHC_ГC-C”PIPëC...
C_ГPsP»P_μPN_ë C_ГP_μC,,C,Ч_ГC-P°PeC_ГPsPSC_Г (P”PëPI. B«PŸP_ГPsC_ГC-P±
P·P°C_ГC,PsC_ГC_ГPIP°PSPSC_Ц C,P° PrPsP·PëB»).

Pj PSPsPIPsPSP°Ч_ГPsPrP_ГP_μPSPëC... C,P° PSP_μPrPsPSPsC€P_μPSPëC... PrC-C,P_μPN_ë
PsP_ГPëC_ГP°PSC- PIPëP_ГP°PrPePë PIPëPSPëPePSP_μPSPSC_Ц P_ГЧ_ГP_μC_ГPëP_ГC-,P°C,C-PI C_Г
P»P_μPIP_μPSC_ЦC... C,P° PSPëЧ_ГPeP°C..., C%Ps C_ГP_ГЧ_ГPëC±PëPSPëP»Pë P»P_μC,P°P»CHBPSC-
PSP°C_ГP»C-PrPePë P_ГЧ_ГPë PsPrPSPsC±P°C_ГPSPsPjC_Г PIPIP_μPrP_μPSPSC-
C_ГP_μC,,C,Ч_ГC-P°PeC_ГPsPSC_Г C,P° P_ГЧ_ГP_μP_ГP°Ч_ГP°C,C-PI PeP°P»CHC_ГC-C_Г. Pj PrP_μC_ЦPePëC...
C-P· C_ГPëC... PIPëP_ГP°PrPeC-PI P·P°C_ГC,PsC_ГPsPIC_ГPIP°P»Pë C,C- P_Г C_ГP°PjC-
C-PSC,,C_ГP·C-PN_ëPSC- C_ГPëC_ГC,P_μPjPë PrP»C_Ц PIPSC_ГC,Ч_ГC-C€PSC_ГPsPIPIP_μPSPSPsPiPs
PIPIP_μPrP_μPSPSC_Ц PrP»C_Ц C_ГP_μC,,C,Ч_ГC-P°PeC_ГPsPSC_Г C,P° Ч_ГPsP·C±PëPSC-PI, C_ЦPeC-
PjC-C_ГC,C_ЦC,CH PeP°P»CHC_ГC-PN_ë, C- PI PrP_μC_ЦPePëC... C-PSC,,C_ГP·C-PN_ëPSPëC...
C_ГPëC_ГC,P_μPjP°C... PrP»C_Ц PIPSC_ГC,Ч_ГC-C€PSC_ГPsPIPIP_μPSPSPsPiPs PIPIP_μPrP_μPSPSC_Ц
C_ГP_ГPsC_ГC,P_μЧ_ГC-PiP°P»PsC_ГC_Ц PIPëPSPëPePSP_μPSPSC_Ц P_ГЧ_ГP_μC_ГPëP_ГC-,P°C,C-PI.

P_μP_μЧ_ГP_μPrPsP·C±PIP°PSPSC_Ц.

PŸPëPjP_ГC,PsPjPë: C-C_ГPSC_ГC” PsP±PjP_μP_ГP_μPSP° C-PSC,,PsЧ_ГPjP°C_ГC-C_Ц P_ГЧ_ГPs
PIPëP_ГP°PrPePë P_ГP_μЧ_ГP_μPrPsP·C_ГPIP°PSPSC_Ц. Pj Ч_ГP°P·C- P_ГP_μЧ_ГP_μPrPsP·C_ГPIP°PSPSC_Ц
PjPsP_ГP»PëPIP_μ P_ГPsC_ГPëP»P_μPSPSC_Ц P_ГЧ_ГPsC_ЦPIC-PI P_ГPsP±C-C±PSPëC... Ч_ГP_μP°PeC_ГC-PN_ë.
P_μЧ_ГPë P_ГP_μЧ_ГP_μPrPsP·C_ГPIP°PSPSC- PjPsP_ГP_μ C_ГP_ГPsC_ГC,P_μЧ_ГC-PiP°C,PëC_ГC_Ц

PSCrPrPsC,P°, P±P»CᖃPIPsC,P°, PrC-P°CᖃPμCᖃ.

P>C-PeCáPIP°PSPSCᖃ: PiPμPjPsPrC-P°P»C-P· P°P±Ps PiPμCᖃPëC,PsPSPμP°P»CHᖃPSPëPNᖃ
PrC-P°P»C-P· PSPμ PμC,,PμPeC,PëPIPsC-. PŸPiPμC†PëC,,C-C†PSPsPiPs P°PSC,PëPrPsC,Cr PSPμ
C-C†PSCrC". P>C-PeCáPIP°PSPSCᖃ PiPμCᖃPμPrPsP·CrPIP°PSPSCᖃ C†PëPjPiC,PsPjP°C,PëC†PSPμ.

PμPsP±C-C†PSC- CᖃPμP°PeC†C-C—.

P†PSC,,PμPeC†C-C— C,P° C-PSPIP°P·C-C—: PeP°PSPrPëPrPsPjC-PePsP·, PjC-PePsP·
C†C,P°C,PμPIPëC... CëP»CᖃC...C-PI, PIC,PsCᖃPëPSPSC- PiCᖃPëP±PePsPIC- C-PSC,,PμPeC†C-C—
C,P° C-PSC,,PμPeC†C-C—, C†PiCᖃPëC†PëPSPμPSC- CᖃPμP·PëC†C,PμPSC,PSPëPjPë
PjC-PeCᖃPsPsCᖃPiP°PSC-P·PjP°PjPë, PiC†PμPIPrPsPjPμPjP±CᖃP°PSPsP·PSPëPNᖃ PePsP»C-C,,
C†CrPiPμCᖃC-PSC,,PμPeC†C-C—.

P— P±PsPeCá C†PëC†C,PμPjPë PeCᖃPsPIC- C,P° P»C-PjC,,P°C,PëC†PSPsC— C†PëC†C,PμPjPë:
PμPsP·PëPSPsC,,C-P»C-Cᖃ, PSPμPNᖃC,CᖃPsPiPμPSC-Cᖃ, P»PμPNᖃPePsPiPμPSC-Cᖃ,
P»PμPNᖃPePsC†PëC,PsP·, P»C-PjC,,PsPiPμPSC-Cᖃ, PiCᖃP°PSCrP»PsC†PëC,PsPiPμPSC-Cᖃ,
P°PSPμPjC-Cᖃ, PIPeP»CᖃC†P°CᖃC†Pë PiPμPjPsP»C-C,PëC†PSCr P°PSPμPjC-Cᖃ,
C,CᖃPsPjP±PsC†PëC,PsPiPμPSC-Cᖃ, C,CᖃPsPjP±PsC†PëC,PsP·, P±P°P·PsC,,C-P»C-Cᖃ,
P·P±C-P»CHᖃCëPμPSPSCᖃ/P·PjPμPSCëPμPSPSCᖃ PiCᖃPsC,CᖃPsPjP±C-PSPsPIPsPiPs C†P°C†Cr,

CᖃPsP·P»P°PrPë PePsP°PiCrP»CᖃC†C-C—, PiC-PiPsPiCᖃPsC,CᖃPsPjP±C-PSPμPjC-Cᖃ,
P°PiCᖃP°PSCrP»PsC†PëC,PsP·. PμC-Pr C†P°C† C,CᖃPëPIP°P»PsPiPs P»C-PeCáPIP°PSPSCᖃ
C†P»C-Pr

CᖃPμPiCrP»CᖃCᖃPSPs PePsPSC,CᖃPsP»CᖃPIP°C,Pë PeP°CᖃC,PëPSCr PeCᖃPsPIC-.

P— P±PsPeCá CëP»CáPSPePsPIPs-PePëCëPePsPIPsPiPs C,CᖃP°PeC,Cá: CᖃC-PrPeC-
PIPëPiPsCᖃPsPᖃPSPμPSPSCᖃ, PrC-P°CᖃPμCᖃ, PSCrPrPsC,P°, P±P»CᖃPIP°PSPSCᖃ,
PjPμC,PμPsCᖃPëP·Pj,B C†C,PsPjP°C,PëC,, PiPsCᖃCrCëPμPSPSCᖃ C†PjP°PeCr, PiP»PsC†PëC,,
PiP°PSPeCᖃPμP°C,PëC,, C°%Ps CᖃPsP·PIPëPSCrPIC†Cᖃ, PjPsPᖃP»PëPIPs, PIPSP°C†P»C-PrPsPe
PsP±C†C,CᖃCrPeC†C-C— PᖃPsPIC†PsPIPëPIC-PrPSPëC... CëP»CᖃC...C-PI, CëP»CrPSPePsPIPs-
PePëCëPePsPIP° PeCᖃPsPIPsC,PμC†P°. PkPμ PjPsPᖃPSP° PIPëPeP»CᖃC†P°C,Pë CᖃPsP»CHᖃ
PiCᖃPμC†PëPiC-C,P°C,C-PI Cr CᖃPsP·PIPëC,PeCr PiP°PSPeCᖃPμP°C,PëC,Cr, C°%Ps
CrC,PIPsCᖃPëP»PëC†Cᖃ PiC-Pr PrC-C"ᖃ C†PμC,,C,CᖃC-P°PeC†PsPSCr Cr
PᖃPsPIC†PsPIPëPIC-PrPSPëC... CëP»CᖃC...P°C...; PiPsPIC-PrPsPjP»CᖃP»PsC†Cᖃ PiCᖃPs
PiC†PμPIPrPsPjPμPjP±CᖃP°PSPsP·PSPëPNᖃ PμPSC,PμCᖃPsPePsP»C-C,,.

P— P±PsPeCá PiPμPiP°C,PsP±C-P»C-P°CᖃPSPsC— C†PëC†C,PμPjPë:
PiC†PμPIPrPsC...PsP»PμP»C-C,C-P°P· PᖃPsPIC†PSPsPiPs PjC-C...CrCᖃP°,
PiCᖃPμC†PëPiC-C,P°C,Pë PeP°P»CHᖃC†C-C"PIPsC— C†PsP»C- C†PμC,,C,CᖃC-P°PeC†PsPSCr Cr
PᖃPsPIC†PSPsPjCr PjC-C...CrCᖃC- P· PIC-PrPiPsPIC-PrPSPsCᖃ C†PëPjPiC,PsPjP°C,PëPePsCᖃ Cr
PrC-C,PμPNᖃ, PsP±PsCᖃPsC,PSPëPNᖃ C...PsP»PμP»C-C,C-P°P· Cr PrC-C,PμPNᖃ,
PiC-PrPIPëC°%PμPSPSCᖃ P°PeC,PëPIPsC†C,C- PiPμC†C-PSPePsPIPëC...
C,CᖃP°PSC†P°PjC-PSP°P· C- P»CrPᖃPSPsC— C,,PsC†C,,P°C,P°P·Pë,
PiC-PiPμCᖃP±C-P»C-CᖃCrP±C-PSPμPjC-Cᖃ, CᖃPrPμCᖃPSP° PᖃPsPIC,CᖃPSPëC†Cᖃ;
C†P°C†C,PsC,P° PSPμPIC-PrPsPjP° ᖃᖃ" PiPμPiP°C,PëC,¹, C...PsP»PμC†C,P°C,PëC†PSPëPNᖃ
PiPμPiP°C,PëC,^{1,2}.

P— P±PsPeCá CëPeC-CᖃPë C- PiC-PrCëPeC-CᖃPSPsC— PeP»C-C,PePsPIPëPSPë: CëPeC-CᖃPSC-

PIPëCÍPëPíP°PSPSCÍ; P°P»PµCĤPiC-C†PSPëPNë PrPµCĤPjP°C,PëC,,; CÍPÍPµCĤP±C-P¶;
PeCĤPsPíPëPIbĤ™ CÍPSPeP°; PSP°P±CĤCÍPePë PíPeP»CĤC†P°CĤC†Pë
P°PSPiC-PsPSPµPICĤPsC,PëC†PSPëPNë PSP°P±CĤCÍPe; PíPSCÍC,CĤPëPNë
PíPµPSPµCĤP°P»C-P·PsPíP°PSPëPNë PµPeP·P°PSC,PµPjP°C,PsP·PSPëPNë PíCíCÍC,CíP»CHbPsP·,
PµPeP·P°PSC,PµPjP°; PµPeCÍCíPrP°C,PëPíPSP° P±P°PíP°C,PsC,,PsCĤPjPSP° PµCĤPëC,PµPjP°;
CÍPëPSPPrCĤPsPj PŸC,C-PÍPµPSCÍP°-P°P¶PSPSCÍPsPSP°; C,PsPeCÍPëC†PSPëPNë
PµPíC-PrPµCĤPjP°P»CHbPSPëPNë PSPµPeCĤPsP»C-P· (CÍPëPSPPrCĤPsPj P»P°PNëC°P»P°P°),
P»C-PeP°CĤCÍCHbPeC- CĤPµP°PeC†C-C— P· PµPsP·PëPSPsC,,C-P»C-C°CĤ C,P°
CÍPëCÍC,PµPjPSPëPjPë PíCĤPsCÍPíP°PjPë (DRESS-CÍPëPSPPrCĤPsPj).

P— P±PsPeCž PSPëCĤPsPe C,P° CÍPµC†PsPíPëPrC-P»CHbPSPsC— CÍPëCÍC,PµPjPë:B
PíC-PrPíPëC%PµPSPSCÍ PePsPSC†PµPSC,CĤP°C†C-C— CÍPµC†PsPíPëPSPë C,P°
PeCĤPµP°C,PëPSC-PSCí Pí PeCĤPsPIC-, PsP»C-PíCíCĤC-CÍ, PíPµPjP°C,CíCĤC-CÍ,
PíP»CĤPePsP·CíCĤC-CÍ; C†PëP»C-PSPPrCĤCíCĤC-CÍ, C-PSC,PµCĤCÍC,PëC†C-P°P»CHbPSPëPNë
PSPµC,,CĤPëC,, CíC,PíPSCĤPµPSPSCÍ PíCĤPµC†PëPíC-C,P°C,C-Pí Cí PSPëCĤPeP°C...
(PsP±PsCĤPsC,PSC-).

PkPµPICĤPsP»PsPíC-C†PSC- CĤPsP·P»P°PrPë: PíPsP»PsPíPSPëPNë P±C-P»CHb C-
P·P°PíP°PjPsCĤPsC†PµPSPSCÍ, C,CĤPµPjPsCĤ, CÍCíPrPsPjPë; CĤC-PrPePs -
PµPSC†PµC,,P°P»PsPíP°C,C-CÍ.

PŁP°CĤPrC-P°P»CHbPSC- CĤPsP·P»P°PrPë: PíC-PrPíPëC%PµPSPSCÍ P°P±Ps
P·PSPëP¶PµPSPSCÍ P°CĤC,PµCĤC-P°P»CHbPSPsPíPs C,PëCÍPeCí, PíC-PrC†CíC,C,CÍ
CÍPµCĤC†PµP±PëC,C,CÍ, CÍPëPSPPrCĤPsPj PŁPsCíPSC-CÍP° (C†P°CÍC,PsC,P°
PSPµPIC-PrPsPjP°).

P— P±PsPeCž PsCĤPiP°PSC-Pí PrPëC...P°PSPSCÍ, PíCĤCžPrPSPsC— PeP»C-C,PePë C,P°
CÍPµCĤPµPrPsCÍC,C-PSPSCÍ: P·P°PrPëC€PeP°, P±CĤPsPSC...PsCÍPíP°P·Pj.

P— P±PsPeCž C-PjCžPSPSPsC— CÍPëCÍC,PµPjPë: P°PSP°C,,C-P»P°PeC,PëC†PSC- P°P±Ps
P°PSP°C,,C-P»P°PeC,PsC—PrPSC- CĤPµP°PeC†C-C—, P°PSP°C,,C-P»P°PeC,PëC†PSPëPNë C€PsPe,
PíC-PíPµCĤC†CíC,P»PëPíC-CÍC,CHb, CĤPµP°PeC†C-CÍ PíCĤPëC€P°-
P°PµCĤPeCÍC...P°PNëPjPµCĤP°.

P— P±PsPeCž PsCĤPiP°PSC-Pí CÍP»CžC...Cž C- CĤC-PíPSPsPíP°PíPë: PíPµCĤC,PëPíPs.

P—P°PíP°P»CHbPSC- CĤPsP·P»P°PrPë: PíCĤPsPíP°CÍPSPëC†CÍ, PsP·PSPsP±,
CÍPëCĤPsPíP°C,PePsPíP° C...PíPSCĤPsP±P°, PSP°P±CĤCÍPePë, PSPsCÍPsPIC-
PeCĤPsPíPsC,PµC†C-, CÍP»P°P±PeC-CÍC,CHb.

PŁC-CÍC†PµPIC- CĤPµP°PeC†C-C—: PíCĤPë PíPSCíC,CĤC-C€PSCĤbPsPíPµPSPSPsPjCí
PíPíPµPrPµPSPSC- bĤ“ C,,P»PµP±C-C,Pë, P±PsP»CĤC†C-CÍC,CHb, CíC%C-P»CHbPSPµPSPSCÍ
PíPs C...PsPrCí PíPµPSPë; PíCĤPë PíPSCíC,CĤC-C€PSCĤbPsPjPbĤ™ CÍP·PsPíPSPjCí
PíPíPµPrPµPSPSC- bĤ“ P±PsP»CĤC†C-CÍC,CHb Cí PjC-CÍC†C- PíPíPµPrPµPSPSCÍ.
P°PSCíC,CĤC-C€PSCĤbPsPjPbĤ™ CÍP·PsPíP° C-PSbĤ™ C°PeC†C-CÍ P±PµP·
P·P°CÍC,PsCÍCžPíP°PSPSCÍ P»C-PrPsPeP°C—PSCž P±PsP»CĤC†P°.

P°PíP»PëPí PSP° CĤPµP·CžP»CHbC,P°C,Pë P»P°P±PsCĤP°C,PsCĤPSPëC... P°PSP°P»C-P·C-Pí.

PµC-PrPíPëC%PµPSPSCÍ CĤC-PíPSCÍ PeCĤPµP°C,PëPSC-PSCí Cí PeCĤPsPIC-. Pj
PíPsPsPrPëPSPsPePëC... PíPëPíP°PrPeP°C... PíCĤPë P»C-PeCíPíP°PSPSC- PíCĤPµPíP°CĤP°C,PsPj
Cí C...PíPSCĤPëC... PjPsP¶CíC,CHb PíC-PrP·PSP°C†P°C,PëCÍCÍ C...PëP±PSPsPíPsP·PëC,PëPíPSC-
CĤPµP·CíP»CHbC,P°C,Pë C,PµCÍC,Cí PŁCíPjP±CÍP°. PíPe C- C-PSC€C-

P°PSC,PëP±C-PsC,PëPePë, PïCĤPμPïP°CĤP°C, PjPsP¶Pμ CĤPïCĤPëC±PëPSCĬC,Pë
C...PëP±PSPsPïPsP·PëC,PëPIPSPëPNë CĤPμP·CĤP»CHC,P°C, PïCĤPsP±Pë PSP°
PiP°P»P°PeC,PsP·PμPjC-CĤ. PĤPëP±PSPsPïPsP·PëC,PëPIPSC- CĤPμP·CĤP»CHC,P°C,Pë
PjPsP¶CĤC,CH P±CĤC,Pë PsC,CĤPëPjP°PSC- C- PïCĤPë PIPëP·PSP°C±PμPSC- PiP»CĤPePsP·Pë CĤ
CĤPμC±C-, C,PsPjCĤ PïC-Pr C±P°CĤ P»C-PeCĤPIP°PSPSCĬ PĤCĤP»CHP±P°PeC,PsPjP°PeCĤPsPj
PiP»CĤPePsP·CĤCĤC-PïCĤPë PSPμPsP±C...C-PrPSPsCĤC,C- CĤP»C-Pr PIPëP·PSP°C±P°C,Pë
P»PëCëPμ C,,PμCĤPjPμPSC,PSPëPj PjPμC,PsPrPsPj.

P'PëPïP°PrPePë PrC-P°CĤPμC— PïC-CĤP»CĬ P·P°CĤC,PsCĤCĤPIP°PSPSCĬ
CĤPμC,,C,CĤC-P°PeCĤPsPSCĤ PjPsP¶CĤC,CH P±CĤC,Pë PïPsPïbĤ™ CĬP·P°PSC- C-P· *Clostridium
difficile*. PĤP»C-Pr PïCĤPëP·PSP°C±PëC,Pë PIC-PrPïPsPIC-PrPSCĤ PeC-P»CHPeC-CĤC,CH
CĤC-PrPëPSPë C,P° PμP»PμPeC,CĤPsP»C-C,C-PI (PrPëPI. CĤPsP·PrC-P»
B«PĤCĤPsP±P»PëPIPsCĤC,C- P·P°CĤC,PsCĤCĤPIP°PSPSCĬB»).

PμCĤPμCĤPëPïC-C,P°C,Pë PeP°P»CHCĤC-C"PIPsC— CĤPsP»C- CĤPμC,,C,CĤC-P°PeCĤPsPSCĤ.

P C-PrPeC-CĤPSC- PIPëPïP°PrPePë C,CĬP¶PePëC... PSPμP±P°P¶P°PSPëC... CĤPμP°PeCĤC-PNë,
C-PSPsPrC- P· P»PμC,P°P»CHPSPëPjPë PSP°CĤP»C-PrPeP°PjPë, P·P°CĤPμC"ĤC,CĤPsPIP°PSC-
CĤ PSPμPrPsPSPsCëPμPSPëC... C,P° PrPsPSPsCëPμPSPëC... PSPsPIPsPSP°CĤPsPrP¶PμPSPëC...
(PIC-PePsPj < 28 PrPSC-PI), CĬPePëPj PIPSCĤC,CĤC-CëPSCĤPsPIPμPSPSPs PIPsPrPëP»Pë
CĤPμC,,C,CĤC-P°PeCĤPsPS C,P° PïCĤPμPïP°CĤP°C,Pë PeP°P»CHCĤC-CĤ. PμCĤPë
P°CĤC,PsPïCĤC-C— CĤ P»PμPiPμPSCĬC... C,P° PSPëCĤPeP°C... P±CĤP»Pë PIPëCĬPIP»PμPSC-
PïCĤPμCĤPëPïC-C,P°C,Pë PeP°P»CHCĤC-C"PIPsC— CĤPsP»C- CĤPμC,,C,CĤC-P°PeCĤPsPSCĤ.
P'PëCĤPsPePëPNë CĤPëP·PëPe CĤC,PIPsCĤPμPSPSCĬ PïCĤPμCĤPëPïC-C,P°C,C-PI CĤ
PSPsPIPsPSP°CĤPsPrP¶PμPSPëC... C" PSP°CĤP»C-PrPePsPj C—C... PjP°P»PsPiPs PsP±bĤ™ C"PjCĤ
PeCĤPsPIC- C,P° PrPsPICëPsPiPs, PSC-P¶ CĤ PrPsCĤPsCĤP»PëC..., PïPμCĤC-PsPrCĤ
PSP°PïC-PIPIPëPIPμPrPμPSPSCĬ CĤPμC,,C,CĤC-P°PeCĤPsPSCĤ (PrPëPI. CĤPsP·PrC-P»Pë
B«PμCĤPsC,PëPïPsPeP°P·P°PSPSCĬB», B«PĤCĤPsP±P»PëPIPsCĤC,C-
P·P°CĤC,PsCĤCĤPIP°PSPSCĬB»).

P—P°CĤPμC"ĤC,CĤPsPIP°PSC- PIPëPïP°PrPePë CĤC,PIPsCĤPμPSPSCĬ
PïCĤPμCĤPëPïC-C,P°C,C-PI CĤ PSPëCĤPeP°C..., PiPsP»PsPIPSPëPj CĤPëPSPsPj CĤ PrC-C,PμPNë
PIC-PePsPj PIC-Pr

3 CĤPsPeC-PI, CĬPeC- PsC,CĤPëPjCĤPIP°P»Pë PIPμP»PëPeC- PrPsP±PsPIC- PrPsP·Pë
PïCĤPμPïP°CĤP°C,CĤ (≥ 80 PjPi/PePi PSP° PrPsP±CĤ), P°P±Ps PeCĤPjCĤP»CĬC,PëPIPSC- PrPsP·Pë
PïPsPSP°Pr 10 Pi, P° C,P°PePsP¶ CĬPeC- PjP°P»Pë PrPsPrP°C,PePsPIC- C,,P°PeC,PsCĤPë
CĤPëP·PëPeCĤ (PsP±PjPμP¶PμPSPμ PIP¶PëPIP°PSPSCĬ CĤC-PrPëPSPë, PïPsCĤC,C-P»CHPSPëPNë
CĤPμP¶PëPj). P PëP·PëPe CĤC,PIPsCĤPμPSPSCĬ PïCĤPμCĤPëPïC-C,P°C,C-PI P·CĤPsCĤC,P°C" CĤ
PïP°CĤC-C"PSC,C-PI, PïPsP·P±P°PIP»PμPSPëC... CĤCĤC...P»PëPIPsCĤC,C- P°P±Ps CĤ
C...PIPsCĤPëC... CĤ CĤC,P°PSC- P·PSPμPIPsPrPSPμPSPSCĬ. PjC,PIPsCĤPμPSPSCĬ
PïCĤPμCĤPëPïC-C,P°C,C-PI CĤ PSPëCĤPeP°C... PjPsP¶Pμ PïCĤPsC,C-PeP°C,Pë
P±PμP·CĤPëPjPïC,PsPjPSPs P°P±Ps PïCĤPsCĬPIP»CĬC,PëCĤCĬ PeP»C-PSC-C±PSPs, PjPsP¶Pμ
CĤPïCĤPëC±PëPSPëC,Pë PSPëCĤPePsPICĤ PSPμPrPsCĤC,P°C,PSC-CĤC,CH, CĬPeP° PjPëPSP°C"
PïC-CĤP»CĬ PïCĤPëPïPëPSPμPSPSCĬ P»C-PeCĤPIP°PSPSCĬ CĤPμC,,C,CĤC-P°PeCĤPsPSPsPj.

P—P°CĤPμC"ĤC,CĤPsPIP°PSC- PIPëPïP°PrPePë CĤC,PIPsCĤPμPSPSCĬ
PïCĤPμCĤPëPïC-C,P°C,C-PI PeP°P»CHCĤC-C"PIPsC— CĤPsP»C- CĤPμC,,C,CĤC-P°PeCĤPsPSCĤ CĤ
P¶PsPIC±PSPsPjCĤ PjC-C...CĤCĤC-, PïPμCĤPμPIP°P¶PSPs CĤ PïP°CĤC-C"PSC,C-PI, CĬPePëPj
PïCĤPμPïP°CĤP°C, PIPsPrPëP»Pë CĤ PrPsP·P°C..., PIPëC%PëC... P·P° CĤC,P°PSPPrP°CĤC,PSCĤ
CĤPμPePsPjPμPSPPrPsPIP°PSCĤ PrPsP·CĤ. Pj PrC-C,PμPNë, P·P° PrP°PSPëPjPë
PïCĤPsCĤPïPμPeC,PëPIPSPëC... PrPsCĤP»C-PrP¶PμPSCĤ, C±P°CĤC,PsC,P° CĤC,PIPsCĤPμPSPSCĬ

PĭCĥPμC†PēPĭC-C,P°C,C-PI PĭCĥPē PIPSCřC,CĥC-C€PSCĥPsPIPμPSPSPsPjCř PIPIPμPrPμPSPSC-
 PĭCĥPμPĭP°CĥP°C,Cř P±CřP»P° CĥC-P·PSPsCĥ Bĥ“ Cř PrPμCĭPePēC...
 PrPsCĭP»C-PrP¶PμPSPSCĭC... PĭPsPSP°Pr 30 %. PμCĥPē PĭPsPIC-P»CĥPSPsPjCř
 PIPIPμPrPμPSPSC- PĭCĥPμPĭP°CĥP°C,Cř (PĭCĥPsC,CĭPiPsPj 20-30 C...PIPēP»PēPS)
 C†P°CĭC,PsC,P° CřC,PIPsCĥPμPSPSCĭ PĭCĥPμC†PēPĭC-C,P°C,C-PI, PsC†PμPIPēPrPSPs,
 PSPēP¶C†P°. PjC,PIPsCĥPμPSPSCĭ PĭCĥPμC†PēPĭC-C,P°C,C-PI P·P°P·PIPēC†P°PNē PSPμ
 CĭCřPĭCĥPsPIPsPrP¶CřC”C,CĥCĭCĭ CĭPēPjPĭC,PsPjP°PjPē, P°P»Pμ Cř CĥC-PrPeC-CĭPSPēC...
 PIPēPĭP°PrPeP°C... PIPēPSPēPeP°P»Pē C,P°PeC- PeP»C-PSC-C†PSC- CĭPēPjPĭC,PsPjPē CĭPe
 P±C-P»Cĥ, PSCřPrPsC,P° C- P±P»CĥPIP°PSPSCĭ. Pj C,P°PePēC... PIPēPĭP°PrPeP°C...
 CĥPμPePsPjPμPSPPrCřC”C,CĥCĭCĭ CĭPēPjPĭC,PsPjP°C,PēC†PSPμ P»C-PeCřPIP°PSPSCĭ.
 PμC-CĭP»Cĭ PĭCĥPēPĭPēPSPμPSPSCĭ P·P°CĭC,PsCĭCřPIP°PSPSCĭ
 C†PμC,,C,CĥC-P°PeCĭPsPSCř PĭCĥPμC†PēPĭC-C,P°C,Pē P·P°P·PIPēC†P°PNē P·PSPēPeP°CĥC,Cĥ
 (PrPēPI. CĥPsP·PrC-P» B«PĥCĭPsP±P»PēPIPsCĭC,C- P·P°CĭC,PsCĭCřPIP°PSPSCĭB»).

¹P—P°P·PIPēC†P°PNē PjP°C” PsP±PsCĥPsC,PSPēPNē C...P°CĥP°PeC,PμCĥ PĭCĥPē
 PĭCĥPēPĭPēPSPμPSPSC- PĭCĥPēPNēPsPjCř C†PμC,,C,CĥPēP°PeCĭPsPSCř.

²P”PēPI. CĥPsP·PrC-P» B«PĥCĭPsP±P»PēPIPsCĭC,C- P·P°CĭC,PsCĭCřPIP°PSPSCĭB».

PŷPμCĥPjC-PS PĭCĥPēPrP°C,PSPsCĭC,C-. 2 CĥPsPePē.

PJPjPsPIPē P·P±PμCĥC-PiP°PSPSCĭ.

P—P±PμCĥC-PiP°C,Pē PĭCĥPē C,PμPjPĭPμCĥP°C,CřCĥC- PSPμ PIPēC‰Pμ 25 B°Pŷ PI
 PsCĥPēPĭC-PSP°P»CĥPSC-PNē CřPĭP°PePsPIC†C- Cř PSPμPrPsCĭC,CřPĭPSPsPjCř PrP»Cĭ
 PrC-C,PμPNē PjC-CĭC†C-.

PkPμCĭCžPjC-CĭPSC-CĭC,Cĥ.

PμCĥPμPĭP°CĥP°C, Cř P¶PsPrPSPsPjCř CĥP°P·C- PSPμ CĭP»C-Pr PrPsPrP°PIP°C,Pē PI
 C-PSC,,CřP·C-PNēPSC- CĥPsP·C†PēPSPē, C‰Ps PjC-CĭC,CĭC,Cĥ PeP°P»CĥC†C-PNē,
 PSP°PĭCĥPēPeP»P°Pr, CĥPsP·C†PēPS P”P°CĥC,PjP°PSP° P°P±Ps P C-PSPiPμCĥP°,
 PIPēP»CĥC†P°CĥC†Pē PĭPsPIPSPμ CĥPsP·C†PēPSPē PrP»Cĭ PĭP°CĥPμPSC,PμCĥP°P»CĥPSPsPiPs
 C...P°CĥC†CřPIP°PSPSCĭ (PrPēPI. CĥPsP·PrC-P»Pē B«PŷPĭPsCĭC-P±
 P·P°CĭC,PsCĭCřPIP°PSPSCĭ C,P° PrPsP·PēB», B«PĥCĭPsP±P»PēPIPsCĭC,C-
 P·P°CĭC,PsCĭCřPIP°PSPSCĭB» C,P° B«PμPsP±C-C†PSC- CĥPμP°PeC†C-C—B») Cř
 P·PIBĥ™ CĭP·PeCř P· C,PēPj, C‰Ps PjPsP¶CřC,Cĥ CřC,PIPsCĥCĥPIP°C,PēCĭCĭ
 PĭCĥPμC†PēPĭC-C,P°C,Pē! PkPμ CĭP»C-Pr C,P°PePsP¶ P·P°CĭC,PsCĭPsPICřPIP°C,Pē
 PeP°P»CĥC†C-PNēPIPjC-CĭPSC- CĥPsP·C†PēPSPē PĭCĥPsC,CĭPiPsPj 48 PiPsPrPēPS PĭC-CĭP»Cĭ
 PsCĭC,P°PSPSCHPsPiPs PIPIPμPrPμPSPSCĭ C†PμC,,C,CĥC-P°PeCĭPsPSCř. PμCĥPμPĭP°CĥP°C,
 PSPμCĭCřPjC-CĭPSPēPNē P· P°PjP·P°PeCĥPēPSPsPj, PIP°PSPePsPjC-C†PēPSPsPj,
 C,,P»CřPePsPSP°P·PsP»PsPj C,P° P°PjC-PSPsPiP»C-PePsP·PēPrP°PjPē, C-PSC€PēPjPē
 P°PSC,PēP±C-PsC,PēPeP°PjPē.

PJPĭP°PePsPIPeP°.

$\text{P} \nleftrightarrow \text{Ps} \quad 1 \quad \text{C}_{\infty} \text{P} \gg \text{P}^{\circ} \text{PePsPSCr} \quad 10 \quad \text{P}^{\circ} \text{P} \pm \text{Ps} \quad 20 \quad \text{PjP} \gg \text{Cr} \quad \text{PeP}^{\circ} \text{C}_{\text{H}} \text{C}, \text{PsPSPSC-PN}_{\text{e}} \quad \text{PePsC}_{\text{H}} \text{PsP} \pm \text{C}^{\dagger} \text{C}-.$

P_LP°C,P_μPiPsC_TC-CΠ PIC-PΓPĩCřCĴPeCř. P—P° C_TP_μC†P_μPĩC,P_SPj.

P'PëCḐPsP±PSPëPε.

$$P'P_{\mu}PSCrC\Gamma \quad P \quad P_{\mu}P_jP_{\mu}PrC-C\Gamma \quad P \triangleright C-P_jC-C, P_{\mu}Pr.$$

РњС-СГС†РµР·РSP°С...РsРrР¶РµРSPSPSCЦ РIPёСЃРsР±РSPёРeР° С,Р° Р°РrСЃРµСГР° РiСЃРsРIP°РrР¶РµРSPSPSCЦ РNёРsРPiРs РrС-СЦР»СЃРSPSPСГС,С-.

$\text{P}\Gamma\text{C}-\text{P}\gg\text{P}\gg \text{P}\check{\text{y}}\text{P}\text{sP}\text{i} \text{ P}\dagger\text{PSP}\Gamma\text{C}\acute{\text{r}}\text{C}\acute{\text{r}}\text{C}, \text{C}\check{\text{H}}\text{C}-\text{P}^{\circ}\text{P}\gg \text{P}\cdot\text{C}\acute{\text{r}}\text{C}, \text{P}_{\mu}\text{PN}_{\text{e}}\text{C}_{,,} \text{P}^{\circ}\text{P}\P^{\circ}\text{C}\check{\text{H}}\text{P}\text{jP}^{\circ}\text{P}\Gamma\text{P}\P^{\circ}\text{C}\check{\text{H}}\text{C}-, \text{P}\cdot\text{P} \text{ P}\dagger\text{P}$
 $\text{P}\alpha\text{P}_{\mu}\text{PN}_{\text{e}}\text{P}\cdot-\text{P}\dagger (\text{P}\cdot\text{P}\text{eC}\acute{\text{r}}\text{C}, \text{PS}_{.}), \text{P}^{\circ}\text{P}^{\circ}\text{C}, \text{PsP}\gg\text{C}- \text{P}\check{\text{L}}\text{P}^{\circ}\text{P}\gg\text{P}^{\circ}\text{PS}, \text{P}^{\circ}\text{P}^{\circ}\text{P}\Gamma\text{P}\Gamma\text{C}-, \text{PsP}\text{eC}\check{\text{H}}\text{C}\acute{\text{r}}\text{P}\text{i} \text{ P}\check{\text{Y}}\text{P}\text{sP}\gg\text{P}^{\circ}\text{PS},$
 $\text{P}\Gamma\text{C}-\text{P}\text{jP}^{\circ}\text{C}\ddagger\text{P}^{\circ}\text{P}\gg \text{P}_{\mu}\text{C}\check{\text{H}}\text{P}^{\circ}\text{P}\Gamma\text{P}_{\mu}\text{C}\text{€} 173205, \text{P}\dagger\text{PSP}\Gamma\text{C}-\text{C}\check{\text{U}}.$

P°P±Ps*

$$P'P\ddot{C}H_PsP\pm PSP\ddot{P}\epsilon.$$
$$\text{P}\ddot{\text{Y}}\text{P}(\text{IC}-\text{C}\dot{\text{I}}\text{C}\dot{\text{I}}\text{P}_{\mu}\text{P}_{\mu}\text{C}\ddot{\text{H}}\text{P}_{\mu}\text{P}\text{SC}, \text{P}_{\mu}\text{C}\ddot{\text{H}}\text{P}^{\circ}\text{P}\gg\text{C}\dot{\text{I}}\text{P}\gg\text{C}, \text{Pr}.$$
$$\mathbf{P_{HC}-Cl\dot{C}+P_{\mu}P\cdot PSP^{\circ}C...PsPrP\|P_{\mu}PSPSC\|PIP\ddot{e}C\dot{H}PsP\pm PSP\ddot{e}PeP^{\circ}.$$

P'P»PsPe P†P†, P"C-P»C‡PSPeP° B,, - 402, 412-414 P‡CTjPsPjPëCÍP»PsPIP° P·PsPSP°
P‡PμCTjP°P»P°, GIDC, PiPsCTjC‡Pr P'P°PIP»P°, PhC...PjPμPrP°P±P°Pr, P"CíPrP¶P°CTjP°C., 382
220, P†PSPrC-C‡.

P—P°CȚPIPSPëPε.

$$\text{P}_{\text{H}}\text{C}-\text{P}\gg\text{C}-\text{P}\Gamma\text{P}_{\mu}\text{P}\gg\text{C}\Gamma\text{P}_{\epsilon}\text{P}_{\mu}\text{C}\zeta\text{P}_{\mu}\text{P}\gg\text{C}-\text{P}\text{j}\text{C}-\text{C},\text{P}_{\mu}\text{P}\Gamma.$$
$$\mathbf{P_{\mathbf{H}}C-C\acute{I}C\ddagger P_{\mathbf{U}}P\cdot P S P^{\circ}C...P_{\mathbf{S}}P_{\mathbf{T}}P\P P_{\mathbf{U}}P S P S C\sqcup P\cdot P^{\circ}C\sqcup P I P S P\ddot{P}_{\mathbf{E}}P_{\mathbf{E}}P^{\circ}.$$

2- PN_6 $\text{PiPsPiP}_{\mu}\text{C}_{\overline{7}}\text{C}...$, $\text{PsC}_{,,}\text{C}-\text{C}\acute{\text{I}}\text{PSP}_{\mu}$ $\text{PiC}_{\overline{7}}\text{P}\ddot{\text{e}}\text{PjC}-\text{C}\%_{\text{P}_{\mu}}\text{PSPSC}_{\overline{7}}$, 4 $\text{P}\S\text{P}^{\circ}\text{C}_{\overline{7}}\text{C}_{,,}\text{C}-\text{P}\gg\text{Pr}$ $\text{P}\Gamma\text{P}^{\circ}\text{C}\acute{\text{r}}\text{C}\acute{\text{r}}$, $\text{P}_{\overline{7}}\text{P}^{\circ}\text{C}\acute{\text{I}}\text{P}\gg\text{P}\ddot{\text{Y}}\text{C}_{,,}\text{C}_{\overline{7}}\text{C}-\text{C}_{,,}$ $\text{P}\ddot{\text{Y}}\text{PsPSC}_{,,}\text{PsPS}$, $\text{P}\ddot{\text{Y}}\text{PsPjP}_{\mu}\text{C}_{\overline{7}}\text{C}\acute{\text{I}}\text{P}_{\mu}\text{C}_{,,}$ $\text{P}_{\overline{7}}\text{PSPiP}\gg\text{C}-\text{C}_{\overline{7}}$, $\text{B B B B B B B B B B B B B B B B TA1 4AS}$, $\text{P}'\text{P}_{\mu}\text{P}\gg\text{P}\ddot{\text{e}}\text{PeP}^{\circ}$ $\text{P}'\text{C}_{\overline{7}}\text{P}\ddot{\text{e}}\text{C}_{,,}\text{P}^{\circ}\text{PSC}-\text{C}_{\overline{7}}$.

***PJ C-PSCfC,CḡCfPεC†C-CḂ, CΠPεP° PIPεP»P°PṛP°C”C,CḂCfCΠ PΙ CfPĩP°PεPsPIPεCf,
PIPSPsCfPëC,CḂCfCΠ CfP°PjPμ C,PsPN₂ PIPëCḡPsP±PSPëPε, CΠPεPëPN₂**

**PIC-PrPĩPsPIC-PrP°C” P•P° PIPëPĩCfCfPε CfPμCḡC-C—, C,P° PIC-Pr CΠPεPsPiPs
P•PṛC-PN₂CfPSCḂC”C,CḂCfCΠ PĩPsCfC,P°PIPεP°.**