

P† Pќ PŸ Pŷ P PJ Pљ P! P† Pİ

**PrP»CИ PjPμPrPëC‡PSPsPiPs P·P°CГC,PsCГCfPIP°PSPSCИ P»C-PeP°CГCГЧHPePsPiPs
P·P°CГPsP±CГ**

PαC-P»CГC,PëPjB®

(FilstimumB®)

CPeP»P°Pr:

PrC-CHC‡P° CГPμC‡PsPIPëPSP°: filgrastim;

1 PjP» CГPsP·C‡PëPSCГ PjC-CГC,PëC,CH 0,3 PjPi (30 PjP»PS PҺPҺ)
C,,C-P»PiCГP°CГC,PëPjCГ PiCГP°PSCГP»PsC‡PëC,CГ
PePsP»PsPSC-C"ГC,PëPjCГP»CHCHC‡PsPiPs C,,P°PeC,PsCГP° (P"-PљPŸPα);

1,6 PjP» CГPsP·C‡PëPSCГ PjC-CГC,PëC,CH 0,48 PjPi (48 PjP»PS PҺPҺ)
C,,C-P»PiCГP°CГC,PëPjCГ PiCГP°PSCГP»PsC‡PëC,CГ
PePsP»PsPSC-C"ГC,PëPjCГP»CHCHC‡PsPiPs C,,P°PeC,PsCГP° (P"-PљPŸPα);

*PrPsPiPsPjC-P¶PSC- CГPμC‡PsPIPëPSPë: PSP°C,CГC-CH P°C‡PμC,P°C,,
C,CГPëPiC-PrCГP°C,,; PİPsP»C-CГPsCГP±P°C, 80; CГPsCГP±C-C, (P• 420); PIPsPrP°
PrP»CИ C-PSBГ™C"PeC‡C-P№.*

P»C-PeP°CГCГЧHPeP° C,,PsCГPjP°. P PsP·C‡PëPS PrP»CИ C-PSBГ™C"PeC‡C-P№.

*PҺCГPSPsPIPSC- C,,C-P·PëPePs-C...C-PjC-C‡PSC- PIP»P°CГC,PëPIPsCГC,C-:
PİCГPsP·PsCГP° P°P±Ps P·P»PμPiPeP° PsPİP°P»PμCГC‡CHCHC‡P°, P±PμP·P±P°CГPIPSP° P°P±Ps
P·P»PμPiPeP° P¶PsPIC,CГPIP°C,PsPiPs PePsP»CHPsCГCГ B CГC-PrPëPSP°.*

PαP°CГPjP°PePsC,PμCГP°PİPμPIC,PëC‡PSP° PiCГCГPİP°.

P†PjCГPSPsCГC,PëPjCГP»CИC,PsCГPë. PљPsP»PsPSC-C"ГC,PëPjCГP»CHCHC‡C-
C,,P°PeC,PsCГPë. PαC-P»PiCГP°CГC,PëPj.

PљPsPr PҺPŸPГ L03A A02.

PαP°CГPjP°PePsP»PsPiC-C‡PSC- PIP»P°CГC,PëPIPsCГC,C-.

PαP°CГPjP°PePsPrPëPSP°PjC-PeP°.

PαC-P»PiCГP°CГC,PëPj C" PIPëCГPsPePsPsC‡PëC%PμPSPëPj
PSPμPiP»C-PePsP»C-P·PsPIP°PSPëPj PİPsP»C-PİPμPİC,PëPrPsPj, C%Ps PjC-CГC,PëC,CH
P·P»PëC€PePë 175 P°PjC-PSPsPePëCГP»PsC,.

PαP°CḡPjP°PePsPeC-PSPμC,PëPeP°.

PμC-CÍP»CÍ PiC-PrC€PeC-CḡPSPsPiPs PIPiPμPrPμPSPSCÍ PiCḡPμPiP°CḡP°C,Cr PI
CḡPμPePsPjPμPSPPrPsPIP°PSPëC... PrPsP·P°C... P№PsPiPs PePsPSC†PμPSC,CḡP°C†C-CÍ PI
CÍPëCḡPsPIP°C,C†C- PeCḡPsPIC- PiPμCḡPμPIPëC%CrC" 10 PSPi/PjP» PiCḡPsC,CÍPiPsPj 8вḡ"16
PiPsPrPëPS; PsP±вḡ™ C" Pj CḡPsP·PiPsPrC-P»Cr PI PeCḡPsPIC- CÍC,P°PSPsPIPëC,CH
P±P»PëP·CHPePs 150 PjP»/PePi. PŸPμCḡPμPrPSC" P·PSP°C†PμPSPSCÍ PiPμCḡC-PsPrCf
PSP°PiC-PIPIPëPIPμPrPμPSPSCÍ C,,C-P»PiCḡP°CÍC,PëPjCf C-P· CÍPëCḡPsPIP°C,PëPë
PeCḡPsPIC- CÍC,P°PSPsPIPëC,CH P±P»PëP·CHPePs 3,5 PiPsPrPëPSPë, P°
C€PIPëPrPeC-CÍC,CH PeP»C-CḡPμPSCÍCf вḡ" P±P»PëP·CHPePs 0,6 PjP»/C...PI PSP° 1
PePi PjP°CÍPë C,C-P»P°. P'PμP·PiPμCḡPμCḡPIPSP° C-PSC,,CfP·C-CÍ PiCḡPsC,CÍPiPsPj
28 PrPSC-PI C...PIPScḡPëPj, CÍPeC- PsPrCfP¶CfCḡC,CH PiC-CÍP»CÍ
P°CfC,PsP»PsPiC-C†PSPsC— PiPμCḡPμCÍP°PrPePë PeC-CÍC,PePsPIPsPiPs PjPsP·PeCf,
PSPμ CÍCfPiCḡPsPIPsPrP¶CfPIP°P»P°CÍCÍ PsP·PSP°PeP°PjPë PeCfPjCfP»CÍC†C-C— C-
P·P±C-P»CHC€PμPSPSCÍ PiPμCḡC-PsPrCf PSP°PiC-PIPIPëPIPμPrPμPSPSCÍ
PiCḡPμPiP°CḡP°C,Cf.

РлP»C-PSC-C†PSC- C...P°CḡP°PeC,PμCḡPëCÍC,PëPePë.

PμPsPeP°P·P°PSPSCÍ.

- P"»CÍ CÍPePsCḡPsC†PμPSPSCÍ C,CḡPëPIP°P»PsCÍC,C- C- P·PSPëP¶PμPSPSCÍ
C†P°CÍC,PsC,Pë PIPëPSPëPePSPμPSPSCÍ PSPμP№C,CḡPsPiPμPSC-C—, PI C,PsPjCf C†PëCÍP»C-
C,P°PePsC—, C%Ps CÍCfPiCḡPsPIPsPrP¶CfC" C,CHCÍCÍ C,,PμP±CḡPëP»CHPSPsCḡ
CḡPμP°PeC†C-C" Cḡ Cf C...PIPScḡPëC..., CÍPeC- PsPrPμCḡP¶CfCḡC,CH
C...C-PjC-PsC,PμCḡP°PiC-Cḡ C†PëC,PsC,PsPeCÍPëC†PSPëPjPë P·P°CÍPsP±P°PjPë PiCḡPë
PSPμPjC-C"»PsC—PrPSPëC... P·P»PsCÍPeC-CÍPSPëC... P·P°C...PIPsCḡCḡPIP°PSPSCÍC....
- P"»CÍ CÍPePsCḡPsC†PμPSPSCÍ C,CḡPëPIP°P»PsCÍC,C- PSPμP№C,CḡPsPiPμPSC-C— C-
C—C— PeP»C-PSC-C†PSPëC... PSP°CÍP»C-PrPeC-PI Cf C...PIPScḡPëC..., CÍPeC-
PsPrPμCḡP¶CfPIP°P»Pë PjC-C"»PsP°P±P»P°C,PëPIPSCf C,PμCḡP°PiC-Cḡ P·
PiPsPrP°P»CHC€PsCḡ C,CḡP°PSCÍPiP»P°PSC,P°C†C-C" Cḡ PeC-CÍC,PePsPIPsPiPs PjPsP·PeCf.
- P"»CÍ PjPsP±C-P»C-P·P°C†C-C— P°CfC,PsP»PsPiC-C†PSPëC... PeP»C-C,PëPS-
PiPsPiPμCḡPμPrPSPëPeC-PI PiPμCḡPëC,,PμCḡPëC†PSPsC— PeCḡPsPIC- (PлPμPμPл)
PiC-CÍP»CÍ PjC-C"»PsCÍCfPiCḡPμCÍPëPIPSsC— C,PμCḡP°PiC-C—, PrP»CÍ
PiCḡPëCÍPePsCḡPμPSPSCÍ PIC-PrPSPsPIP»PμPSPSCÍ PiPμPjPsPiPsPμP·Cf C€P»CÍC...PsPj
PIPIPμPrPμPSPSCÍ C†PëC... PeP»C-C,PëPS PiC-CÍP»CÍ PjC-C"»PsCÍCfPiCḡPμCÍC-C— P°P±Ps
PjC-C"»PsP°P±P»P°C†C-C—.
- PμCḡPë C,CḡPëPIP°P»C-P№ C,PμCḡP°PiC-C—, C%Ps CÍPiCḡCÍPjPsPIP°PSP° PSP°
P·P±C-P»CHC€PμPSPSCÍ PeC-P»CHPePsCÍC,C- PSPμP№C,CḡPsC,,C-P»CHPSPëC...
PiCḡP°PSCfP»PsC†PëC,C-PI, PrP»CÍ P·PSPëP¶PμPSPSCÍ C†P°CÍC,PsC,Pë C- PrP»CÍ
CÍPePsCḡPsC†PμPSPSCÍ C,CḡPëPIP°P»PsCÍC,C- C-PSC,,PμPeC†C-P№PSPëC...
CfCÍPeP»P°PrPSPμPSCḡ Cf PrC-C,PμP№ C- PrPsCḡPsCÍP»PëC... P· C,CÍP¶PePsCḡ
PICḡPsPrP¶PμPSPsCḡ, PiPμCḡC-PsPrPëC†PSPsCḡ P°P±Ps P·P»PsCÍPeC-CÍPSPsCḡ
PSPμP№C,CḡPsPiPμPSC-C" Cḡ (P°P±CÍPsP»CḡC,PSP° PeC-P»CHPeC-CÍC,CH
PSPμP№C,CḡPsC,,C-P»CHPSPëC... PiCḡP°PSCfP»PsC†PëC,C-PI <500 Cf 1 PjPj³) C,P° P·
C,CÍP¶PePëPjPë P°P±Ps CḡPμC†PëPrPëPICfCḡC†PëPjPë C-PSC,,PμPeC†C-CÍPjPë PI

P°PSP°PjPSPμP·C-.

PμCḡPsC,PëPìPsPeP°P·P°PSPSCII. PμC-PrPIPëC%oPμPSP° C‡CíC,P»PëPIC-CíC,CH
PrPs C,,C-P»PiCḡP°CíC,PëPjCr, PePsP»PsPSC-C”CíC,PëPjCrP»CḡCḡC‡PëC...
C,,P°PeC,PsCḡC-PI, *Escherichia coli* P°P±Ps PrPs P±CíPrCḡ-CḡPePsPiPs
PePsPjPìPsPSPμPSC,P° PìCḡPμPìP°CḡP°C,Cí.

PkPμ CíP»C-Pr PIPëPePsCḡPëCíC,PsPICíPIP°C,Pë P· PjPμC,PsCḡ
PìC-PrPIPëC%oPμPSPSCII PìPμCḡPμPSPsCíPëPjPsCíC,C- P·P±C-P»CHC€PμPSPëC...
PrPsP· C‡PëC,PsC,PsPeCíPëC‡PSPëC... C...C-PjC-PsC,PμCḡP°PìPμPIC,PëC‡PSPëC...
PìCḡPμPìP°CḡP°C,C-PI.

PÿCḡP¶PeP° PICḡPsPrP¶PμPSP° PSPμPNëC,CḡPsPìPμPSC-Cḡ (CíPëPSPPrCḡPsPj
PḡPsCíC,PjP°PSP°) P· C‡PëC,PsPiPμPSPμC,PëC‡PSPëPjPë PìPsCḡCíC€PμPSPSCḡPjPë
C,P° P°CíC,PsC-PjCíPSPSP° PSPμPNëC,CḡPsPìPμPSC-Cḡ.

PÿPμCḡPjC-PSP°P»CHPSP° CíC,P°PrC-Cḡ C...CḡPsPSC-C‡PSPsC— PSPëCḡPePsPIPSc—
PSPμPrPsCíC,P°C,PSPsCíC,C- (PíPkPk).

PíCḡPsPSC-C‡PSPëPNë PjC-C”P»PsP»PμPNëPePsP· C,P°
PjC-C”P»PsPrPëCíPìP»P°CíC,PëC‡PSPëPNë CíPëPSPPrCḡPsPj.

P°P·P°C”PjPsPrC-Cḡ P· C-PSC€PëPjPë P»C-PeP°CḡCíCHPePëPjPë
P·P°CíPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PNë. PkPμ
PICíC,P°PSPsPIP»PμPSP° P±PμP·PìPμPeP° C,P° PμC,,PμPeC,PëPIPSC-CíC,CH
PIPIPμPrPμPSPSCII C,,C-P»PiCḡP°CíC,PëPjCr PI PsPrPëPS PrPμPSCḡ P·
PjC-C”P»PsCíCíPìCḡPμCíPëPIPSPëPjPë C‡PëC,PsC,PsPeCíPëC‡PSPëPjPë
C...C-PjC-PsPìCḡPμPìP°CḡP°C,P°PjPë. PŞPμCḡPμP· C‡CíC,P»PëPIC-CíC,CH
PjC-C”P»PsC—PrPSPëC... PeP»C-C,PëPS, CḡPeC- C€PIPëPrPePs PrC-P»CḡC,CHCíCḡCḡ,
PrPs PjC-C”P»PsCíCíPìCḡPμCíPëPIPSPsC— C‡PëC,PsC,PsPeCíPëC‡PSPsC—
C...C-PjC-PsC,PμCḡP°PìC-C— B PìCḡPëP·PSP°C‡P°C,Pë C,,C-P»PiCḡP°CíC,PëPj PI
C-PSC,PμCḡPIP°P»C- 24 PìPsPrPëPS PrPs C- PìC-CíP»Cḡ PIPμPrPμPSPSCII C‡PëC...
PìCḡPμPìP°CḡP°C,C-PI PSPμ CḡPμPePsPjPμPSPPrCíC”C,CHCíCḡCḡ.

PḡPsP¶P»PëPIPμ PìPsCíPëP»PμPSPSCII PSPμPNëC,CḡPsPìPμPSC-C— PìCḡPë
PIP·P°C”PjPsPrC-C— P· 5-C,,C,PsCḡCíCḡP°C‡PëP»PsPj. PḡPsP¶P»PëPIP°
PIP·P°C”PjPsPrC-Cḡ C,,C-P»PiCḡP°CíC,PëPjCr P· C-PSC€PëPjPë
PìPμPjPsPìPsPμC,PëC‡PSPëPjPë C,,P°PeC,PsCḡP°PjPë CḡPsCíC,Cí C,P°
C‡PëC,PsPeC-PSP°PjPë PSPμ PrPsCíP»C-PrP¶CíPIP°P»P°CíCH.

P— PsPiP»CḡPrCí PSP° C,Pμ, C%oPs P»C-C,C-PNë CíC,PëPjCrP»CḡC”
PIPëPIC-P»CHPSPμPSPSCII PSPμPNëC,CḡPsC,,C-P»C-PI, PjPsP¶P»PëPIPμ
PìPsCíPëP»PμPSPSCII PrC-C— PìCḡPμPìP°CḡP°C,Cí.

PμCḡPμPìP°CḡP°C, PSPμCíCíPjC-CíPSPëPNë P· CḡPsP·C‡PëPSPsPj PSP°C,CḡC-Cḡ

PħCÍPsP±P»PëPIPSCÍC,C-
P·P°CÍC,PsCÍCéPIP°PSPSCЦ. P“-PљPŸPα
CÍPïC҃PëCЦC” C҃PsCÍC,Cf
PjC-C”P»PsC—P҃PSPëC... PεP»C-C,PëPS *in*
vitro. P҃PSP°P»PsPiC-C‡PSPëPNº
PμC,,PμPεC, *in vitro* PjPsP¶Pμ
CÍPïPsCÍC,PμC҃C-PiP°C,PëCÍCЦ C- Cf
P҃PμCЦPεPëC...
PSPμPjC-C”P»PsC—P҃PSPëC...
PεP»C-C,PëPSP°C.... P’PμP·PïPμPεP° C,P°
PμC,,PμPεC,PëPIPSC-CÍC,C҃
P·P°CÍC,PsCÍCfPIP°PSPSCЦ
C,,C-P»PiC҃P°CÍC,PëPjCf C...PIPSC҃PëPj
C-P·
PjC-C”P»PsP҃PëCÍPïP»P°CÍC,PëC‡PSPëPj
CÍPëPSP҃C҃PsPjPsPj P°P±Ps
C...C҃PsPSC-C‡PSPëPj
PjC-C”P»PsP»PμPNºPεPsP·PsPj PSPμ
PICÍC,P°PSPsPIP»PμPSC-. PŸPsPjCf PïC҃Pë
C†PëC... P·P°C...PIPSC҃C҃PIP°PSPSCЦC...
PïC҃PμPïP°C҃P°C, PSPμ

**PiPsPeP°P·P°PSPëPN°. PhCÍPsP±P»PëPICí
CíPIP°PiCí CÍP»C-Pr P·PIPµCḤC,P°C,Pë
PiCḤPë PiCḤPsPIPµPrPµPSPSC-
PrPëC,,PµCḤPµPSC†C-PN°PSPsPiPs
PrC-P°PiPSPsP·Cí P±P»P°CÍC,PSPsC—
C,CḤP°PSCÍC,,PsCḤPjP°C†C-C— PiCḤPë
C...CḤPsPSC-C‡PSPsPjCí
PjC-C”P»PsP»PµPN°PePsP·C- C-
PiPsCÍC,CḤPsPjCí
PjC-C”P»PsP»PµPN°PePsP·C-.**

P·C,,PµPeC,PëPIPSC-CÍC,Ch C,,C-P»PiCḤP°CÍC,PëPjCí PiCḤPë C...C-PjC-PsC,PµCḤP°PiC-C— P-
PIC-PrCÍC,CḤPsC‡PµPSPsCḤ PjC-C”P»PsCÍCíPiCḤPµCÍC-C”CḤ, PSP°PiCḤPëPeP»P°Pr,
PSC-C,CḤPsP·PsCÍPµC‡PsPIPëPSPsCḤ, PjC-C,,PsPjC-C†PëPSPsPj PŸ P°P±Ps
PjC-C”P»PsCÍCíPiCḤPµCÍPëPIPSPëPjPë PrPsP·P°PjPë P°PSC,PëPjPµC,P°P±PsP»C-C,C-PI,
C,P°PePëC... CŪPe 5-PrPJ P°P±Ps C†PëC,PsP·PëPS-P°CḤP°P±C-PSPsP·PëPS, PSP° PrP°PSPëPN°
C‡P°CÍ PIC-PrPiPsPIC-PrPSPëPj C‡PëPSPsPj PSPµ PiC-PrC,PIPµCḤPrPŸPµPSP°.

*PhCÍPsP±P»PëPIC- P·P°CÍC,PµCḤPµPŸPµPSPSCŪ PrP»CŪ PiP°C†C-C”PSC,C-PI P·
PsPSPePsP»PsPiC-C‡PSPëPjPë P·P°C...PIPsCḤCḤPIP°PSPSCŪPjPë.*

*P>PµPN°PePsC†PëC,PsP· P>PµPN°PePsC†PëC,PsP· 100×10⁹/P» C- P±C-P»ChC€Pµ
CḤC-PrPePs CÍPiPsCÍC,PµCḤC-PiP°PICÍCŪ PiC-Pr C‡P°CÍ P»C-PeCíPIP°PSPSCŪ
C,,C-P»PiCḤP°CÍC,PëPjPsPj Cí PrPsP·P°C..., CŪPeC- PiPµCḤPµPIPëC%°CíPIP°P»Pë 0,3
PjP»PS PḤPh (3 PjPePi)/PePi PSP° PrPsP±Cí. P’CíPrCh-CŪPePëC... PiPsP±C-C‡PSPëC...
CḤPµP°PeC†C-PN°, C%°Ps P±PµP·PiPsCÍPµCḤPµPrPSCḤPs P±CíP»Pë P±
PiPsPIBḤ™ CŪP·P°PSC- P· C,P°PePëPj CḤC-PIPSµPj P»PµPN°PePsC†PëC,PsP·Cí, PSPµ
PsPiPëCÍP°PSPs. PµCḤPsC,Pµ P· PsPiP»CŪPrCí PSP° PjPsPŸP»PëPIPëPN° CḤPëP·PëPe,
PiPsPIBḤ™ CŪP·P°PSPëPN° P· P»PµPN°PePsC†PëC,PsP·PsPj, PiPsC,CḤC-P±PSPs
CḤPµPiCíP»CŪCḤPSPs PIPëP·PSP°C‡P°C,Pë PeC-P»ChPeC-CÍC,Ch
P»PµPN°PePsC†PëC,C-PI. PiPeC%°Ps PiC-CÍP»CŪ PiCḤPsC...PsPrPŸPµPSPSCŪ
PsC‡C-PeCíPIP°PSPsPiPs PSP°PN°PSPëPŸC‡PsPiPs CḤC-PIPSCŪ PeC-P»ChPeC-CÍC,Ch
P»PµPN°PePsC†PëC,C-PI PiPµCḤPµPIPëC%°PëC,Ch 50×10⁹/P», C,,C-P»PiCḤP°CÍC,PëPj
CÍP»C-Pr PSPµPiP°PN°PSPs PIC-PrPjC-PSPëC,Pë. PiPeC%°Ps C,,C-P»PiCḤP°CÍC,PëPj
P·P°CÍC,PsCÍPsPICíPIP°C,Pë PrP»CŪ PjPsP±C-P»C-P·P°C†C-C—
PiPµCḤPëC,,PµCḤPëC‡PSPëC... CÍC,PsPIP±CíCḤPsPIPëC... PeP»C-C,PëPS PeCḤPsPIC-,
PiCḤPµPiP°CḤP°C, CÍP»C-Pr PIC-PrPjC-PSPëC,Pë, CŪPeC%°Ps PeC-P»ChPeC-CÍC,Ch
P»PµPN°PePsC†PëC,C-PI PiPµCḤPµPIPëC%°PëC,Ch 70×10⁹/P».*

P†PjCžPSPsPiPμPSPSC-ClC,CH.

PhClPeC-P»CHPePë C,,C-P»PiCḡP°ClC,PëPj C" PiPμPiC,PëPrPsPj, C-ClPSCrC"
PiPsC,PμPSC†C-P°P» PrP»C| C-PjC†PSPsPiPμPSPSPsClC,C-. PëPIPëPrPeC-ClC,CH
C†C,PIPsCḡPμPSPSC| P°PSC,PëC,C-P» PrPs C,,C-P»PiCḡP°ClC,PëPjC† P·P°P·PIPëC†P°Pnë
PSPëP·CHPeP°. PïPe C- PsC†C-PeC†PIP°P»PsClC|, P·PI'ClP·C†PIP°PSPSC| P·
P°PSC,PëC,C-P»P°PjPë PrC-PnëClPSPs PIC-PrP±C†PIP°C"C,CHClC|, ClPe PrP»C| C†ClC-C...
P±C-PsPiCḡPμPiP°CḡP°C,C-PI. PhPrPSP°Pe PSP° ClCḡPsPiPsPrPSC- PSPμ
PIC†C,P°PSPsPIP»PμPSPs, C%Ps C-PjC†PSPsPiPμPSPSC-ClC,CHB PjPsP¶Pμ
PiCḡPsC|PIP»C|C,PëClC| ClPe PIC-PrClC†C,PSC-ClC,CH PμC,,PμPeC,C† PiCḡPë
P·P°ClC,PsClC†PIP°PSPSC- P»C-PeP°CḡClCḡPePsPiPs P·P°ClPsP±C†. P—PiC-PrPSPs P·
PrP°PSPëPjPë C†PsC,PëCḡCHPsC... PeP»C-PSC-C†PSPëC... PrPsClP»C-PrP¶PμPSCḡ P·P°
C†C†P°ClC,CH P·PrPsCḡPsPIPëC... PrPsP±CḡPsPIPSP»CHC†C-PI C,P° PiP°C†C-C"PSC,C-PI P·
PsPSPePsP»PsPiC-C†PSPëPjPë P·P°C...PIPsCḡCḡPIP°PSPSC|PjPë C† P¶PsPrPSPsPiPs P· PSPëC...
PIPSP°ClP»C-PrPsPe PIPIPμPrPμPSPSC| C,,C-P»PiCḡP°ClC,PëPjC† PSPμ
ClPiPsClC,PμCḡC-PiP°P»PsClCḡ C†C,PIPsCḡPμPSPSC| P°PSC,Pë-CḡP" -PḡPḡPḡ
P°PSC,PëC,C-P».

*P PëP·PëPe, PiPsPiḡḡ™ ClP·P°PSPëPnë C-P· PIPëClPsPePsPrPsP·PsPIPSCḡ
C...C-PjC-PsC,PμCḡP°PiC-C"CH.*

PhClPsP±P»PëPIC† PsP±PμCḡPμP¶PSC-ClC,CH ClP»C-Pr PIPëC|PIP»C|C,Pë PiCḡPë
P»C-PeC†PIP°PSPSC- C...PIPsCḡPëC..., ClPeC- PsC,CḡPëPjC†CḡC,CH
PIPëClPsPePsPrPsP·PsPIC† C...C-PjC-PsC,PμCḡP°PiC-Cḡ, PsClPeC-P»CHPePë
PiPsPeCḡP°C%PμPSPSC| PIC-PrPiPsPIC-PrC- PiC†C...P»PëPSPë PSP° C,P°PePμ
P»C-PeC†PIP°PSPSC| PSPμ ClPiPsClC,PμCḡC-PiP°P»PsClC|, C,PsPrC- ClPe
PiC-PrPIPëC%PμPSC- PrPsP·Pë C...C-PjC-PsPiCḡPμPiP°CḡP°C,C-PI PjP°CḡC,CH P±C-P»CHCë
PIPëCḡP°P¶PμPSC† C,PsPeClPëC†PSC-ClC,CH, PIPeP»CḡC†P°CḡC†Pë ClPμCḡC†PμPIPSP-
ClC†PrPëPSPSC-, P»PμPiPμPSPμPIC-, PSPμPICḡPsP»PsPiC-C†PSC- C-
PrPμCḡPjP°C,PsP»PsPiC-C†PSC- PiCḡPsC|PIPë (PrPëPI. C-PSC†C,CḡC†PeC†C-C— PrP»C|
P·P°ClC,PsClC†PIP°PSPSC| PePsPSPeCḡPμC,PSPëC... C...C-PjC-PsPiCḡPμPiP°CḡP°C,C-PI).
PḡPsPSPsC,PμCḡP°PiC-C| C,,C-P»PiCḡP°ClC,PëPjPsPj PSPμ P·P°PiPsP±C-PiP°C"
C,CḡPsPjP±PsC†PëC,PsPiPμPSC-C— C,P° P°PSPμPjC-C—, ClPiCḡPëC†PëPSPμPSC-
PjC-C"P»PsClC†PiCḡPμClPëPIPSPsCḡ C...C-PjC-PsC,PμCḡP°PiC-C"CH, PsPrPSP°Pe PrP°C"
P·PjPsPiC† P·P°ClC,PsClPsPIC†PIP°C,Pë C...C-PjC-PsPiCḡPμPiP°CḡP°C,Pë PI P±C-P»CHCë
PIPëClPsPePëC... PrPsP·P°C... (PIC-PrPiPsPIC-PrPSPs PrPs ClC...PμPjPë), PIPSP°ClP»C-PrPsPe
C†PsPiPs C...PIPsCḡPëPnë PiC-PrPrP°C"C,CHClC| PIPëClPsPePsPjC† CḡPëP·PëPeC†
CḡPsP·PIPëC,PeC† C,CḡPsPjP±PsC†PëC,PsPiPμPSC-C— C,P° P°PSPμPjC-C—.
P PμPePsPjPμPSP†C†C,CḡClC| CḡPμPiC†P»C|CḡPSPs PIPëP·PSP°C†P°C,Pë
PeC-P»CHPeC-ClC,CH C,CḡPsPjP±PsC†PëC,C-PI C- PiPsPeP°P·PSPëPe PiPμPjP°C,PsPeCḡPëC,C†.
PhClPsP±P»PëPIC† PsP±PμCḡPμP¶PSC-ClC,CH ClP»C-Pr PiCḡPsC|PIPëC,Pë PiCḡPë
P·P°ClC,PsClC†PIP°PSPSC- PsPrPSPsPePsPjPiPsPSPμPSC,PSPëC... P°P±Ps
PePsPjP±C-PSPsPIP°PSPëC... C...C-PjC-PsC,PμCḡP°PiPμPIC,PëC†PSPëC... ClC...PμPj,
P·PrP°C,PSPëC... ClPiCḡPëC†PëPSPëC,Pë C,CḡPsPjP±PsC†PëC,PsPiPμPSC-Cḡ.

P—P°ClC,PsClC†PIP°PSPSC| PḡPμPḡPḡ, PjPsP±C-P»C-P·PsPIP°PSPëC... P·P°
PrPsPiPsPjPsPiPsCḡ PiCḡPμPiP°CḡP°C,C-PI C,,C-P»PiCḡP°ClC,PëPjC†, P·PjPμPSC€C†C"
PIPëCḡP°P¶PμPSC-ClC,CH C- C,CḡPëPIP°P»C-ClC,CH C,CḡPsPjP±PsC†PëC,PsPiPμPSC-C—
PiC-ClP»C| PjC-C"P»PsClC†PiCḡPμClPëPIPSPsC— P°P±Ps PjC-C"P»PsP°P±P»P°C,PëPIPSPSC—
C...C-PjC-PsC,PμCḡP°PiC-C—.

P C-PrPePs PiC-ClP»C| PIPIPμPrPμPSPSC| PiCḡP°PSC†P»PsC†PëC,P°CḡPSPsPiPs

PePsP»PsPSC-C"ClC,PëPjCfP»CñCñC±PsPiPs C,,P°PeC,PsCñP° PiPsPIC-PrPsPjP»CñP»PsClCñ
PiCñPs PiPsP±C-C±PSC- CñPµP°PeC†C-C— P· P±PsPeCf P»PµPiPµPSC-PI, P·PsPeCñPµPjP°
PiCñPs C-PSC,PµCñClC,PëC†C-P°P»CñPSCf PiPSPµPIPjPsPSC-Cñ. PµP°C†C-C"PSC,Pë P·
P»PµPiPµPSPµPIPëPjPë C-PSC,,C-P»CñC,CñP°C,P°PjPë P°P±Ps PiPSPµPIPjPsPSC-C" Cñ PI
PSPµC%oPsPrP°PIPSCñPsPjCf P°PSP°PjPSPµP·C- PjPsP¶CfC,Cñ PjP°C,Pë
PiC-PrPIPëC%oPµPSPëPñ CñPëP·PëPe C†CfPeP»P°PrPSPµPSCñ. P'PëPSPëPePSPµPSPSCñ P·
P±PsPeCf P»PµPiPµPSCñ ClPëPjPiC,PsPjC-PI, C,P°PePëC... ClPe PeP°C€PµP»Cñ,
P»PëC...PsPjP°PSPeP° C- P·P°PrPëC€PeP°, C† PiPsC"PrPSP°PSPSC- P· PsP·PSP°PeP°PjPë
CñPµPSC,PiPµPSPsP»PsPiC-C±PSPëC... C-PSC,,C-P»CñC,CñP°C,PëPIPSPëC... P·PjC-PS
P»PµPiPµPSCñ, PiPsPiC-CñC€PµPSPSCñPj C,,C†PSPeC†C-C— P»PµPiPµPSCñ C-
P·P±C-P»CñC€PµPSPSCñPj PeC-P»CñPePsClC,C- PSPµPñC,CñPsC,,C-P»C-PI PjPsP¶CfC,Cñ
P±CfC,Pë PiPsPiPµCñPµPrPSC-PjPë PsP·PSP°PeP°PjPë CñPµClPiC-CñP°C,PsCñPSPsPiPs
PrPëCfC,CñPµCl-C†PëPSPrCñPsPjCf PrPsCñPsClP»PëC.... Pj C,P°PePëC... PIPëPiP°PrPeP°C...
PiCñPµPiP°CñP°C, ClP»C-Pr PIC-PrPjC-PSPëC,Pë C,P° PiCñPëP·PSP°C±PëC,Pë
PIC-PrPiPsPIC-PrPSPµ P»C-PeCfPIP°PSPSCñ.

P†ClPSCfC" PsP±PjPµP¶PµPSPëPñ PrPsClPIC-Pr P·P°ClC,PsClCfPIP°PSPSCñ
PiCñPµPiP°CñP°C,C† PiP°C†C-C"PSC,P°Pj P· C,ClP¶PePëPj PiPsCñCfC€PµPSPSCñPj
C,,C†PSPeC†C-C— PiPµC±C-PSPePë C,P°/P°P±Ps PSPëCñPsPe.

*PñClPsP±P»PëPIC- P·P°ClC,PµCñPµP¶PµPSPSCñ PrP»Cñ PiP°C†C-C"PSC,C-PI, ClPePëPj
PiCñPsPIPSPrPëC,CñClCñ PjPsP±C-P»C-P·P°C†C-Cñ PiPµCñPëC,,PµCñPëC±PSPëC...
ClC,PsPIP±C±CñPsPIPëC... PeP»C-C,PëPS PeCñPsPIC-.*

PñPsP±C-P»C-P·P°C†C-Cñ.

PµCñPsClPiPµPeC,PëPIPSPëC... CñP°PSPrPsPjC-P·PsPIP°PSPëC...
PrPsClP»C-PrP¶PµPSCñ P· PjPµC,PsCñ PiPsCñC-PIPSCñPSPSCñ PrPIPSC...
CñPµPePsPjPµPSPrPsPIP°PSPëC... PjPµC,PsPrC-PI PjPsP±C-P»C-P·P°C†C-C—
PiPµCñPëC,,PµCñPëC±PSPëC... ClC,PsPIP±CfCñPsPIPëC... PeP»C-C,PëPS PeCñPsPIC-
(C,C-P»CñPePë C,,C-P»PiCñP°ClC,PëPj P°P±Ps PI PePsPjP±C-PSP°C†C-C— P·
PjC-C" P»PsClCfPiCñPµClPëPIPSPSCñ C,PµCñP°PiC-C" Cñ) PI PsPrPSC-Pñ C- C,C-Pñ
P¶Pµ PiPsPiCfP»CñC†C-C— C...PIPSCñPëC... PSPµ PiCñPsPIPSPrPëP»Pë.
P'PµP·PiPsClPµCñPµPrPSC" PiPsCñC-PIPSCñPSPSCñ CñPµP·CfP»CñC,P°C,C-PI
CñC-P·PSPëC... PrPsClP»C-PrP¶PµPSCñ C†C,CñCfPrPSPµPSPµ PIPSP°ClP»C-PrPsPe
C-PSPrPëPIC-PrCfP°P»CñPSPëC... PIC-PrPjC-PSPSPSCfC,PµPñ PjC-P¶
PiP°C†C-C"PSC,P°PjPë, P° C,P°PePsP¶ PIPSP°ClP»C-PrPsPe PIC-PrPjC-PSPSPSCfC,PµPñ
P»P°P±PsCñP°C,PsCñPSPëC... P°PSP°P»C-P·C-PI CD34 PeP»C-C,PëPS. PÿPsPjCf
PrPsClPëC,Cñ ClPeP»P°PrPSPs CñPµPePsPjPµPSPrCfPIP°C,Pë
PsPiC,PëPjP°P»CñPSPëPñ PjPµC,PsPr PjPsP±C-P»C-P·P°C†C-C—. PñPµC,PsPr
PjPsP±C-P»C-P·P°C†C-C— ClP»C-Pr PsP±PëCñP°C,Pë P·P°P»PµP¶PSPs PIC-Pr
P·P°PiP°P»CñPSPSC— PjPµC,Pë P»C-PeCfPIP°PSPSCñB PrP»Cñ
PePsPSPeCñPµC,PSPsPiPs PiP°C†C-C"PSC,P°.

PµPsPiPµCñPµPrPSC" P»C-PeC±PIP°PSPSCñ C†PëC,PsC,PsPeClPëC±PSPëPjPë P·P°ClPsP±P°PjPë.

Pj C...PIPSCñPëC..., ClPePëPj C† PjPëPSCfP»PsPjCf PiCñPsPIPSPrPëP»Pë
C-PSC,PµPSCfPëPIPSCf PjC-C" P»PsClCfPiCñPµClPëPIPSCf C,PµCñP°PiC-Cñ C- ClPeC-
PiC-ClP»Cñ C†CñPsPiPs PsC,CñPëPjCfPIP°P»Pë C,,C-P»PiCñP°ClC,PëPj P· PjPµC,PsCñ
PjPsP±C-P»C-P·P°C†C-C— PiPµCñPëC,,PµCñPëC±PSPëC... ClC,PsPIP±CfCñPsPIPëC...

PeP»C-C, PëPS PeCĤPsPIC-, PjPsP¶Pµ PSPµ PIC-PrP±CfPIP° C, PëCfCĬ PrPsCfC, P° C, PSCĤPsPiPs P·P±C-P»CHC€PµPSPSCĬ PiPµCĤPëC,, PµCĤPëC±PSPëC... CfC, PsPIP±CfCĤPsPIPëC...
PeP»C-C, PëPS PeCĤPsPIC- PrPs CĤPµPePsPjPµPSPPrPsPIP°PSPsPiPs PjC-PSC-PjP°P»CHPSPsPiPs CĤC-PIPSCĬ ≥2,0×10⁶ CD34 PeP»C-C, PëPS/PëPi. PµCĤPëCfCfPePsCĤPµPSPSCĬ PIC-PrPSPsPIP»PµPSPSCĬ PeC-P»CHPePsCfC, C- C, CĤPsPjP±PsCfPëC, C-PI Cr C†PëC...
PiP°C†C-C" PSC, C-PI C, P°PePsP¶ PjPsP¶Pµ P±CfC, Pë PjPµPSC€ PIPëCĤP°P¶PµPSPµ, PSC-P¶ Cr CĤP°PSC-C€Pµ PSPµ P»C-PePsPIP°PSPëC... PiP°C†C-C" PSC, C-PI P°P±Ps Cr PiP°C†C-C" PSC, C-PI, CĬPeC- PsC, CĤPëPjCfPIP°P»Pë PjPµPSC€ PµPeCfC, PµPSCfPëPIPSPµ P»C-PeCfPIP°PSPSCĬ.

P" PµCĬPeC- C†PëC, PsCfC, P° C, PëPePë PsCfPsP±P»PëPIPs C, PsPeCfPëC±PSPs PIPiP»PëPIP°CĤC, CH PSP° PeP»C-C, PëPSPë-PiPsPiPµCĤPµPrPSPëPePë PiPµPjPsPiPsPµP·Cr C- PjPsP¶CfC, CH PSPµPiP° C, PëPIPsPs PIPiP»PëPIP° C, Pë PSP° C—C... PjPsP±C-P»C-P·P°C†C-CĤ. P—P°CfC, PsCfCfPIP°PSPSCĬ C, P°PePëC... PiCĤPµPiP°CĤP° C, C-PI, CĬPe PjPµP»C,, P°P»P°PS, PeP°CĤPjCfCfC, PëPS C, P° PeP°CĤP±PsPiP»P° C, PëPS, PiCĤPsC, CĬPiPsPj C, CĤPëPIP°P»PsPiPs PiPµCĤC-PsPrCf PrPs PiPsC±P° C, PeCf P·P°PiP»P°PSPsPIP°PSPsC— PjPsP±C-P»C-P·P°C†C-C— CfC, PsPIP±CfCĤPsPIPëC... PeP»C-C, PëPS PjPsP¶Pµ P·PjPµPSC€PëC, Pë CfC, CrPiC-PSCĤ C—C— PIPëCĤP°P¶PµPSPsCfC, C-. PkP°PIP°PePë, P·P°CfC, PsCfCfPIP°PSPSCĬ PjPµP»C,, P°P»P°PSCf, PeP°CĤPjCfCfC, PëPSCf P°P±Ps PeP°CĤP±PsPiP»P° C, PëPSCf CĤP°P·PsPj P· C,, C-P»PiCĤP°CfC, PëPjPsPj CfPiCĤPëCĬC" PjPsP±C-P»C-P·P°C†C-C— CfC, PsPIP±CfCĤPsPIPëC... PeP»C-C, PëPS PeCĤPsPIC-. PiPeC%Ps PiP»P°PSCfC"C, CHCfCĬ C, CĤP°PSCfPiP»P°PSC, P°C†C-CĬ PiPµCĤPëC,, PµCĤPëC±PSPëC... CfC, PsPIP±CfCĤPsPIPëC... PeP»C-C, PëPS PeCĤPsPIC-, CĤPµPePsPjPµPSPPrCfC"C, CHCfCĬ P·P°PiP»P°PSCfPIP° C, Pë C—C... PjPsP±C-P»C-P·P°C†C-CĤ PSP° CĤP°PSPSC-PNë CfC, P°PrC-C— PeCfCĤCfCf P»C-PeCfPIP°PSPSCĬ. Pj PiP°C†C-C" PSC, C-PI, CĬPeC- PsC, CĤPëPjCfCĤC, CH C, P°PePµ P»C-PeCfPIP°PSPSCĬ, PsCfPsP±P»PëPICf CrPIP°PiCf CfP»C-Pr P·PIPµCĤPSCfC, Pë PSP° PeC-P»CHPeC-CfC, CH PeP»C-C, PëPS-PiPsPiPµCĤPµPrPSPëPeC-PI, PjPsP±C-P»C-P·PsPIP°PSPëC... PrPs P·P°CfC, PsCfCfPIP°PSPSCĬ PIPëCfPsPePsPrPsP·PsPIPSC— C...C-PjC-PsC, PµCĤP°PiC-C—. PiPeC%Ps CĤPµP·CfP»CHC, P° C, Pë PjPsP±C-P»C-P·P°C†C-C—, PIC-PrPiPsPIC-PrPSPs PrPs PIPëC%PµPSP°PIPµPrPµPSPëC... PeCĤPëC, PµCĤC-C—PI, PSPµPrPsCfC, P° C, PSC-, CfP»C-Pr CĤPsP·PiP»CĬPSCfC, Pë P°P»CHC, PµCĤPSP° C, PëPIPsC- PIPëPrPë P»C-PeCfPIP°PSPSCĬ, C%Ps PSPµ PiPsC, CĤPµP±CfCĤC, CH P·P°PjC-C%PµPSPSCĬ PeP»C-C, PëPS-PiPsPiPµCĤPµPrPSPëPeC-PI.

PhC†C-PSPeP° PeC-P»CHPePsCfC, C- CfC, PsPIP±CfCĤPsPIPëC... PeP»C-C, PëPS PeCĤPsPIC-.

PhC†C-PSCĤCĤC±Pë PeC-P»CHPeC-CfC, CH CfC, PsPIP±CfCĤPsPIPëC... PeP»C-C, PëPS PeCĤPsPIC-, PjPsP±C-P»C-P·PsPIP°PSPëC... Cr C... PIPsCĤPëC... P·P° PrPsPiPsPjPsPiPsCĤ C,, C-P»PiCĤP°CfC, PëPjCf, CfP»C-Pr PiCĤPëPrC-P»PëC, Pë PsCfPsP±P»PëPICf CrPIP°PiCf PjPµC, PsPrCf PeC-P»CHPeC-CfPSPsPiPs PIPëP·PSP°C±PµPSPSCĬ. P PµP·CfP»CHC, P° C, Pë PiCĤPsC, PsC±PSPsPiPs C†PëC, PsPjPµC, CĤPëC±PSPsPiPs P°PSP°P»C-P·Cr PeC-P»CHPePsCfC, C- CD34 PeP»C-C, PëPS P·P°P»PµP¶P° C, CH PIC-Pr PePsPSPeCĤPµC, PSPsC— PjPµC, PsPrPsP»PsPiC-C—, C- PiPsC, CĤC-P±PSPs P· PsP±PµCĤPµP¶PSC-CfC, CĤ CfC, P°PIPëC, PëCfCĬ PrPs CĤPµPePsPjPµPSPPrP°C†C-PNë C%PsPrPs C—C... PSCĤPsC— PeC-P»CHPePsCfC, C-, C%Ps P±P°P·CfCĤC, CHCfCĬ PSP° PrPsCfP»C-PrP¶PµPSPSCĬC..., PiCĤPsPIPµPrPµPSPëC... PI C-PSC€PëC... P»P°P±PsCĤP° C, PsCĤC-CĬC...

P†CfPSCfC" CfPeP»P°PrPSP°, P°P»Pµ CfC, P°P±C-P»CHPSP° CfC, P° C, PëCfC, PëC±PSP° P·P°P»PµP¶PSC-CfC, CH PjC-P¶ PeC-P»CHPeC-CfC, CĤ PIPiPµPrPµPSPëC... PI CĤPµC-PSC,, CfP·C-CĤ CD34 PeP»C-C, PëPS C- C€PIPëPrPeC-CfC, CĤ PSPsCĤPjP°P»C-P·P°C†C-C— PeC-P»CHPePsCfC, C- C, CĤPsPjP±PsC†PëC, C-PI PiC-CfP»CĬ PIPëCfPsPePsPrPsP·PsPIPSC— C...C-PjC-PsC, PµCĤP°PiC-C—.

P PμPePsPjPμPSPPrPsPIP°PSP° PjC-PSC-PjP°P»CHΨPSP° PeC-P»CHΨPeC-CΓC,CH 2,0×10⁶ CD34
PeP»C-C,PēPS/PePi P±P°P·CfC”C,CHCΓCΨ PSP° PsPiCfP±P»C-PePsPIP°PSPēC... PrP°PSPēC...
PrPsCΓPIC-PrCf P·P°CΓC,PsCΓCfPIP°PSPSCΨ C- PiCΨPēP·PIPsPrPēC,CH PrPs
PrPsCΓC,P°C,PSCHΨPsPiPs PIC-PrPSPsPIP»PμPSPSCΨ PiPμPjP°C,PsP»PsPiC-C±PSPēC...
PiPsPeP°P·PSPēPeC-PI. PλC-P»CHΨPeC-CΓC,CH, C%Ps PiPμCΨPμPIPēC%CfC” C†Pμ
P·PSP°C†PμPSPSCΨ, PsC†PμPIPēPrPSPs CΓCfPiCΨPsPIPsPrP¶CfC”C,CHCΓCΨ P±C-P»CHΨCē
CēPIPēPrPePsCΨ PSPsCΨPjP°P»C-P·P°C†C-C”CΨ; PeC-P»CHΨPeC-CΓC,CH, PjPμPSCēP° P·P°
PIPeP°P·P°PSCf, BΨ” P±C-P»CHΨCē PiPsPIC-P»CHΨPSPsCΨ PSPsCΨPjP°P»C-P·P°C†C-C”CΨ
PeP°CΨC,PēPSPē PeCΨPsPIC-.

*P—PrPsCΨPsPIC- PrPsPSPsCΨPē, CΨPeC- PiCΨPsC...PsPrCΨC,CH PjPsP±C-P»C-P·P°C†C-CΨ
PλPμPμPλ.*

PΨPsP±C-P»C-P·P°C†C-CΨ PλPμPμPλ PjPsP¶Pμ PiCΨPsPIPsPrPēC,PēCΓCΨ Cf
PrPsPSPsCΨC-PI P»PēCēPμ Cf CΨP°P·C- PIC-PrPiPsPIC-PrPSPsCΓC,C-
P·PIPēC†P°PN₂PSPēPj PeP»C-PSC-C±PSPēPj C,P° P»P°P±PsCΨP°C,PsCΨPSPēPj
PeCΨPēC,PμCΨC-CΨPj PrPsPSPsCΨCΓC,PIP° PeP»C-C,PēPS-PiPsPiPμCΨPμPrPSPēPeC-PI
PiPμPjPsPiPsPμP·Cf, PsCΓPsP±P»PēPIPs CΓP»C-Pr P·PIPμCΨC,P°C,Pē CfPIP°PiCf PSP°
PiPμPjP°C,PsP»PsPiC-C±PSC- PiPsPeP°P·PSPēPePē C- PSP°CΨPIPSC-CΓC,CH
C-PSC,,PμPeC†C-PN₂PSPēC... C...PIPsCΨPsP±.

PΨPsP±C-P»C-P·P°C†C-CΨ PλPμPμPλ PSPμ P·P°P±PμP·PiPμC†CfC” PiCΨCΨPjPsC—
PeP»C-PSC-C±PSPsC— PePsCΨPēCΓC,C- P·PrPsCΨPsPIPēPj PrPsPSPsCΨP°Pj, C—C—
CΓP»C-Pr CΨPsP·PiP»CΨPrP°C,Pē C,C-P»CHΨPePē P· PjPμC,PsCΨ
C,CΨP°PSCΓPiP»P°PSC,P°C†C-C— P°P»PsPiPμPSPSPēC... CΓC,PsPIP±CfCΨPsPIPēC...
PeP»C-C,PēPS.

P’PμP·PiPμPeP° C,P° PμC,,PμPeC,PēPIPSC-CΓC,CH P·P°CΓC,PsCΓCfPIP°PSPSCΨ
C,,C-P»PiCΨP°CΓC,PēPjCf P·PrPsCΨPsPIPēPj PrPsPSPsCΨP°Pj PIC-PePsPj PrPs 16
CΨPsPeC-PI C- PiPsPSP°Pr 60 CΨPsPeC-PI PSPμ PsC†C-PSCΨPIP°P»PēCΓCΨ.

PŷPēPjC†P°CΓPsPIP° C,CΨPsPjP±PsC†PēC,PsPiPμPSC-CΨ (PeC-P»CHΨPeC-CΓC,CH
C,CΨPsPjP±PsC†PēC,C-PI <100×10⁹/P») PiC-CΓP»CΨ PiCΨPēP·PSP°C†PμPSPSCΨ
C,,C-P»PiCΨP°CΓC,PēPjCf C- PiCΨPsPIPμPrPμPSPSCΨ P»PμPN₂PeP°C,,PμCΨPμP·Cf
CΓPiPsCΓC,PμCΨC-PiP°P»P°CΓCΨ Cf 35% PrPsPSPsCΨC-PI. PŷPμCΨPμPr PSPēC...
P±CfP»Ps P·P°CΨPμC”CΓC,CΨPsPIP°PSPs PrPIP° PIPēPiP°PrPePē
C,CΨPsPjP±PsC†PēC,PsPiPμPSC-C— P· PeC-P»CHΨPeC-CΓC,CΨ C,CΨPsPjP±PsC†PēC,C-PI
<50×10⁹/P», CΨPeC- PiPsPIBΨ™ CΨP·CfPIP°P»Pē P· PiCΨPsPIPμPrPμPSPSCΨPj
P»PμPN₂PeP°C,,PμCΨPμP·Cf.

P—P° PSPμPsP±C...C-PrPSPsCΓC,C- PiCΨPsPIPμPrPμPSPSCΨ P±C-P»CHΨCē PSC-P¶
PsPrPSPsPiPs P»PμPN₂PeP°C,,PμCΨPμP·Cf PsCΓPsP±P»PēPICf CfPIP°PiCf CΓP»C-Pr
P·PIPμCΨPSCfC,Pē PSP° PrPsPSPsCΨC-PI, Cf CΨPePēC... PeC-P»CHΨPeC-CΓC,CH
C,CΨPsPjP±PsC†PēC,C-PI PrPs P»PμPN₂PeP°C,,PμCΨPμP·Cf CΓC,P°PSPsPIPēC,CH
PjPμPSCēPμ 100×10⁹/P». PμCΨPsPIPμPrPμPSPSCΨ P»PμPN₂PeP°C,,PμCΨPμP·Cf PSPμ
CΨPμPePsPjPμPSPPrCfC”C,CHCΓCΨ, CΨPeC%Ps PeC-P»CHΨPeC-CΓC,CH
C,CΨPsPjP±PsC†PēC,C-PI PjPμPSCēPμ 75×10⁹/P», PiCΨPē PiCΨPēP·PSP°C†PμPSPSC-
P°PSC,PēPePsP°PiCfP»CΨPSC,C-PI C,P° PIC-PrPsPjPēC... PiPsCΨCfCēPμPSPSCΨC...
PiPμPjPsCΓC,P°P·Cf.

Рҫҫҫ°PSP·PëC,PsCҫҫPSC- C†PëC,PsPiPµPSPµC,PëC†PSC- PIC-PrC...PëP»PµPSPSCҫҫ
CҫҫҫPіCҫҫC,РµCҫҫC-PiP°P»PëCҫҫCҫҫ Cҫҫ P·PrPsCҫҫPsPIPëC... PrPsPSPsCҫҫC-PI PiC-CҫҫҫP»Cҫҫ
P·P°CҫҫC,PsCҫҫCҫҫPIP°PSPSCҫҫ P“-PҫҫPҫҫPα. P—PSP°C†PµPSPSCҫҫ C†PëC... P·PjC-PS
PSPµPIC-PrPsPjC-. P—P° PrPsPSPsCҫҫP°PjPë, CҫҫPëC- PiCҫҫPëPNëPjP°P»Pë C,,C-P»PiCҫҫP°CҫҫC,PëPj
PrP»Cҫҫ PjPsP±C-P»C-P·P°C†C-C— PҫҫPµPµPҫҫ, PiPsC,CҫҫC-P±PSPs
CҫҫҫPіCҫҫC,РµCҫҫC-PiP°C,Pë PrPs PSPsCҫҫPjP°P»C-P·P°C†C-C—
PiPµPjP°C,PsP»PsPiC-C†PSPëC... PiPsPëP°P·PSPëPëC-PI.

РҫҫҫC-Рj C,PsPiPs, PSPµ PIPëPëP»CҫҫC†PµPSPëPNë CҫҫPëP·PëPë CҫҫC,РëPjCҫҫP»CҫҫC†C-C—
P·P»PsCҫҫPëC-CҫҫPSPsPiPs PjC-C”P»PsC—PrPSPsPiPs PëP»PsPSCҫҫ. PjPµPSC,CҫҫP°Pj
P°C,,PµCҫҫPµP·Cҫҫ CҫҫPµPëPsPjPµPSPPrCҫҫ”C,CҫҫCҫҫCҫҫ CҫҫPµC”CҫҫC,CҫҫCҫҫPIP°C,Pë C-
PiCҫҫPsPIPsPrPëC,Pë CҫҫҫPіCҫҫC,РµCҫҫPµP¶PµPSPSCҫҫ P·P° PrPsPSPsCҫҫP°PjPë PҫҫPµPµPҫҫ
PiCҫҫPsC,CҫҫPiPsPj PjC-PSC-PjCҫҫPj 10 CҫҫPsPëC-PI PrP»Cҫҫ P·P°P±PµP·PiPµC†PµPSPSCҫҫ
PiPsPrP°P»CҫҫC€PsPiPs P·P±PsCҫҫCҫҫ PrP°PSPëC... C%PsPrPs P±PµP·PiPµPëPë
P·P°CҫҫC,PsCҫҫCҫҫPIP°PSPSCҫҫ PiCҫҫPµPiP°CҫҫP°C,Cҫҫ.

РµC-CҫҫҫP»Cҫҫ P·P°CҫҫC,PsCҫҫCҫҫPIP°PSPSCҫҫ C,,C-P»PiCҫҫP°CҫҫC,PëPjCҫҫ Cҫҫ
P·PrPsCҫҫPsPIPëC... PrPsPSPsCҫҫC-PI PjPsP¶P»PëPIPëPNë CҫҫPsP·CҫҫPëPI
CҫҫҫPµP»PµP·C-PSPePë. Pj P·PiBҫҫ™ CҫҫP·PëCҫҫ P· C†PëPj Cҫҫ PSPëC...
CҫҫPµPëPsPjPµPSPPrCҫҫ”C,CҫҫCҫҫCҫҫ PëPsPSC,CҫҫPsP»CҫҫPIP°C,Pë CҫҫPsP·PjC-CҫҫPë
CҫҫҫPµP»PµP·C-PSPePë (PiP°P»CҫҫPiP°C†C-Cҫҫ, PjP—P”). PҫҫP»C-Pr PjP°C,Pë PSP°
CҫҫPIP°P·C- PjPsP¶P»PëPIC-CҫҫC,Cҫҫ CҫҫPsP·CҫҫPëPICҫҫ CҫҫҫPµP»PµP·C-PSPePë PiCҫҫPë
CҫҫPëP°CҫҫPiP°C... PSP° P±C-P»Cҫҫ Cҫҫ PIPµCҫҫC...PSC-PNë P»C-PIC-PNë C†P°CҫҫC,PëPSC-
P¶PëPIPsC,P° P°P±Ps PI P»C-PIPsPjCҫҫ PiP»PµC†C-.

*PhCҫҫPsP±P»PëPIC- P·P°CҫҫC,РµCҫҫPµP¶PµPSPSCҫҫ PrP»Cҫҫ CҫҫPµC†PëPiC-C”PSC,C-PI
P°P»PsPiPµPSPSPëC... PiPµCҫҫPëC,,PµCҫҫPëC†PSPëC... CҫҫC,PsPIP±CзCҫҫPsPIPëC... PëP»C-C,PëPS
PëCҫҫPsPIC-, PjPsP±C-P»C-P·PsPIP°PSPëC... P·P° PrPsPiPsPjPsPiPsCҫҫ C,,C-P»PiCҫҫP°CҫҫC,PëPjCз.*

P’CҫҫP»Pë PsC,CҫҫPëPjP°PSC- PiPsPIC-PrPsPjP»PµPSPSCҫҫ PiCҫҫPs CҫҫPµP°PëC†C-C—
B«C,CҫҫP°PSCҫҫҫPіP»P°PSC,P°C, PiCҫҫPsC,Pë C...P°P·CҫҫC—PSP°B» C- P»PµC,P°P»CҫҫPSC-
PSP°CҫҫP»C-PrPëPë Cҫҫ PiP°C†C-C”PSC,C-PI, CҫҫPëC- PsC,CҫҫPëPjCҫҫCҫҫ,Cҫҫ P“-PҫҫPҫҫPα
PiC-CҫҫҫP»Cҫҫ P°P»PsPiPµPSPSPsC— C,CҫҫP°PSCҫҫҫPіP»P°PSC,P°C†C-C— PëC-CҫҫC,PëPsPIPsPiPs
PjPsP·PëCҫҫ.

PҫҫҫP°PSCҫҫC,,PsCҫҫPjP°C†C-Cҫҫ PI P»PµPNëPëPsP· P°P±Ps PiPµCҫҫPµPrP»PµPNëPëPsP·.

PhCҫҫPsP±P»PëPICҫҫ PsP±PµCҫҫPµP¶PSC-CҫҫC,Cҫҫ CҫҫҫP»C-Pr PIPëCҫҫPIP»CҫҫC,Pë PiCҫҫPë
PrPëC,,PµCҫҫPµPSC†C-PNëPSC-PNë PrC-P°PiPSPsCҫҫC,PëC†C- C,CҫҫP¶PëPsC—
C...CҫҫPsPSC-C†PSPsC— PSPµPNëC,CҫҫPsPiPµPSC-C— C,P° C-PSC€PëC...
PiPµPjP°C,PsP»PsPiC-C†PSPëC... P·P°C...PIPсCҫҫCҫҫPIP°PSCҫҫ, C,P°PëPëC... CҫҫPë
P°PiP»P°CҫҫC,PëC†PSP° P°PSPµPjC-Cҫҫ, PjC-C”P»PsPrPëCҫҫҫPіP»P°P·C-Cҫҫ C-
PjC-C”P»PsP»PµPNëPëPsP·.

P”Ps PiPsC†P°C,PëCҫҫ P»C-PëCҫҫPIP°PSPSCҫҫ CҫҫҫP»C-Pr P·CҫҫPsP±PëC,Pë
CҫҫPsP·PiPsCҫҫPSCҫҫC,PëPNë P°PSP°P»C-P· PëCҫҫPsPIC- P· PIPëP·PSP°C†PµPSPSCҫҫPj
P»PµPNëPëPsC†PëC,P°CҫҫPSPsC— C,,PsCҫҫPjCҫҫP»Pë C- PëC-P»CҫҫPëPsCҫҫC,C-
C,CҫҫPsPjP±PsC†PëC,C-PI, P° C,P°PëPsP¶ PrPsCҫҫҫP»C-PrPëC,Pë PjPsCҫҫC,,PsP»PsPiC-C†PSCҫҫ
PëP°CҫҫC,PëPSCҫҫ PëC-CҫҫC,PëPsPIPsPiPs PjPsP·PëCҫҫ C- PëP°CҫҫC-PsC,PëPi.

Pj PiP°C†C-C”PSC,C-PI P· PiCҫҫPsPrP¶PµPSPsCҫҫ PSPµPNëC,CҫҫPsPiPµPSC-C”Cҫҫ PiCҫҫPë

PrPsPIPiPsC,CTPëPIP°P»PsPjCf P»C-PeCfPIP°PSPSC- C,,C-P»PiCTHP°CfC,PëPjPsPj
CfPiPsCfC,PµCTHC-PiP°P»P°CfCf PjC-C"»PsPrPëCfPiP»P°P-C-Cf P°P±Ps P»PµPNëPePsP· (12,1%
PiCTHPsC,CfPiPsPj 5 CTHPsPeC-PI). Pµ CfPiPsCfC,PµCTHPµP¶PµPSPSCf P±CfP»Ps
PIC-PrP·PSP°CfPµPSPs C,C-P»CHPePë CfC,PsCfPsPIPSPs PiP°CfC-C"»PSC,C-PI P·
PICHPsPrP¶PµPSPsCTH PSPµPNëC,CTHPsPiPµPSC-C"»CTH. PñC-C"»PsPrPëCfPiP»P°P-C-Cf C-
P»PµPNëPePsP· C" P·PIPëCfP°PNëPSPëPjPë CfCfPeP»P°PrPSPµPSPSCfPjPë PrP°PSPsPiPs
P·P°C...PIPSCfCTHPiP°PSPSCf, C—C... PiCTHPëCfPëPSPSPs-PSP°CfP»C-PrPePsPIPëPNë
P·PiBf™ CfP·PsPe C-P· P·P°CfC,PsCfCfPIP°PSPSCfPj C,,C-P»PiCTHP°CfC,PëPjCf PSpµ
PIPëP·PSP°CfPµPSPëPNë. PµCTHPëP±P»PëP·PSPs Cf 12 % C...PIPSCfPëC... P·
PiPsCfP°C,PePsPIPsCTH PSPsCTHPjP°P»CHPSPsCTH CfPëC,PsPiPµPSPµC,PëPePsCTH PiCTHPë
PiPsPIC,PsCTHPSPëC... PrPsCfP»C-PrP¶PµPSPSCfC... PIPëCfPIP»CfP»PëCfCTH
P°PSPsPjP°P»C-C—, Cf C,PsPjCf CfPëCfP»C- PsPrPëPS PIPëPiP°PrPsPe PjPsPSPsCfPsPjC-C— 7.
PµCTHPë CTHPsP·PIPëC,PeCf P»PµPNëPePsP·Cf P°P±Ps PiPµCTHPµPrP»PµPNëPePsP·Cf
(P·P±C-P»CHCëPµPSPSCf PeC-P»CHPePsCfC,C- P»PµPNëPePsP±P»P°CfC,C-PI Cf
PiPµCTHPëC,,PµCTHPëCfPSC-PNë PeCTHPsPIC-) C,,C-P»PiCTHP°CfC,PëPj CfP»C-Pr
PIC-PrPjC-PSPëC,Pë. PkP° CfCHPsPiPsPrPSC- PSpµP·CTHPsP·CfPjC-P»Ps, CfPë CfPiCTHPëCfC
C,CTHPëPIP°P»Pµ P»C-PeCfPIP°PSPSCf C,,C-P»PiCTHP°CfC,PëPjPsPj C...PIPSCfPëC... P·
PiPsCTHCfCëPµPSPëPj CfPëC,PsPiPµPSPµP·PsPj CTHPsP·PIPëC,PeCf
CfPëC,PsPiPµPSPµC,PëCfPSPëC... P°PSPsPjP°P»C-PNë, PjC-C"»PsPrPëCfPiP»P°P-C-C— P°P±Ps
P»PµPNëPePsP·Cf. P PµPePsPjPµPSPrCfC"»C,CHCfCf CTHPµPiCfP»CfCTHPSPs
(PiCTHPëP±P»PëP·PSPs PePsP¶PSC- 12 PjC-CfCfCfC-PI) PiCTHPsPIPsPrPëC,Pë
PjPsCTHC,,PsP»PsPiC-CfPSC- C,P° CfPëC,PsPiPµPSPµC,PëCfPSC- PrPsCfP»C-PrP¶PµPSPSCf
PeC-CfC,PePsPIPsPiPs PjPsP·PeCf.

*PhCfPsP±P»PëPIC- P·P°CfC,PµCTHPµP¶PµPSPSCf PrP»Cf PiP°CfC-C"»PSC,C-PI P·
C,CfP¶PePsCTH C...CTHPsPSC-CfPSPsCTH PSPµPNëC,CTHPsPiPµPSC-C"»CTH (PjPfPk).*

PαPsCTHPjCfP»P° PeCTHPsPIC-.

PµPsC,CTHC-P±PSPs CTHPµC,PµP»CHPSPs PePsPSC,CTHPsP»CTHPiP°C,Pë PeC-P»CHPeC-CfC,CH
C,CTHPsPjP±PsCfPëC,C-PI, PsCfPsP±P»PëPIPs PiCTHPsC,CfPiPsPj PiPµCTHCëPëC...
PrPµPeC-P»CHPePsC... C,PëP¶PSC-PI P»C-PeCfPIP°PSPSCf C,,C-P»PiCTHP°CfC,PëPjPsPj.

PµCTHPë CTHPsP·PIPëC,PeCf C,CTHPsPjP±PsCfPëC,PsPiPµPSC-C— (PeC-P»CHPeC-CfC,CH
C,CTHPsPjP±PsCfPëC,C-PI PSPëP¶CfPµ 100×10⁹/P») CfP»C-Pr CTHPsP·PiP»CfPSCfC,Pë
PiPëC,P°PSPSCf PiCTHPs C,PëPjCfP°CfPsPICf PIC-PrPjC-PSCf PiCTHPµPiP°CTHP°C,Cf P°P±Ps
P·PjPµPSCëPµPSPSCf PNëPsPiPs PrPsP·Pë. PµPsC,CTHC-P±PSPs CfPiPsCfC,PµCTHC-PiP°C,Pë
C,P°PePsP¶ C- P·P° C-PSCëPëPjPë PiPsPeP°P·PSPëPeP°PjPë C,,PsCTHPjCfP»Pë PeCTHPsPIC-,
CfPeC- PiPsC,CTHPµP±CfCTHC,CH CTHPµC,PµP»CHPSPsPiPs PePsPSC,CTHPsP»CTH, Cf C,PsPjCf
CfPëCfP»C- P·P° P°PSPµPjC-C"»CTH C- C,CTHP°PSP·PëC,PsCTHPSPëPj P·P±C-P»CHCëPµPSPSCfPj
PeC-P»CHPePsCfC,C- PjC-C"»PsC—PrPSPëC... PeP»C-C,PëPS-PiPsPiPµCTHPµPrPSPëPeC-PI.

PiPëC,PsPiPµPSPµC,PëCfPSC- PiPsCTHCfCëPµPSPSCf, P»PµPNëPePsP· C- PsCfC,PµPsPiPsCTHPsP·
(9,1 %) P±CfP»Pë PIPëCfPIP»PµPSC- PiCTHPë PrPsPIPiPsC,CTHPëPIP°P»PsPjCf
CfPiPsCfC,PµCTHPµP¶PµPSPSC- (P±C-P»CHCëPµ 5 CTHPsPeC-PI) Cf PiP°CfC-C"»PSC,C-PI P·
C,CfP¶PePsCTH C...CTHPsPSC-CfPSPsCTH PSPµPNëC,CTHPsPiPµPSC-C"»CTH. PkPµPIC-PrPsPjPs, CfPë
PIPëP°P·P°PSP° PiP°C,PsP»PsPiC-Cf PiPsPiBf™ CfP·P°PSP° P· P»C-PeCfPIP°PSPSCfPj.

PfPSC,,PµPeCfC-C—, C%oPs PiCTHPëP·PIPsPrCfC,CH PrPs PjC-C"»PsCfCfPiCTHPµCfC-C—.

PkPµPNëC,CTHPsPiPµPSC-Cf PjPsP¶Pµ CTHPsP·PIPëPIP°C,PëCfCf PIPSP°CfP»C-PrPsPe
C-PSC,,C-P»CHC,CTHP°CfC-C— PeC-CfC,PePsPIPsPiPs PjPsP·PeCf

PsPiPsC7C,CrPSC-C7C,PeC#PSPePjPe C-PSC,,PµPeC+C-C7PjPe, C,P°PePePjPe C7Pe
PePsPjPiP»PµPeC7 Micobacterium avium, P°P±Ps PIPSP°C7P»C-PrPsPe
PiCrC...P»PèPSPSPsPiPs CrC7P°P¶PµPSPSC7 PeC-C7C,PePsPIPsPiPs PjPsP·PeC7
(P»C-PjC,,PsPjP°). Pj C...PIPsC7PeC... C-P· PIC-PrPsPjPsC7
C-PSC,,C-P»CHC,C7P°C7C-C"7C PeC-C7C,PePsPIPsPiPs PjPsP·PeC7
C-PSC,,PµPeC+C-PNèPSPePjPe P·P±CrPrPSPèPeP°PjPe P°P±Ps P· PiCrC...P»PèPSPSPePjPe
CrC7P°P¶PµPSPSC7PjPe PeC-C7C,PePsPIPsPiPs PjPsP·PeC7 C,PµC7P°PiC-C7
C,,C-P»PiC7P°C7C,PèPjPsPj PrP»C7 P»C-PeC7PIP°PSPSC7 PSPµPNèC,C7PsPiPµPSC-C—
C7P»C-Pr PiC7PsPIPsPrPèC,Pè PsPrPSPsC#P°C7PSPs P· C,PµC7P°PiC-C"7C
PIPeP°P·P°PSPsC— PiP°C,PsP»PsPiC-C—. PµPµC...P°PSC-P·Pj PrC-C—
C,,C-P»PiC7P°C7C,PèPjCr PiC7Pè P»C-PeC7PIP°PSPSC- PSPµPNèC,C7PsPiPµPSC-C—,
P·CrPjPsPIP»PµPSPsC— C-PSC,,C-P»CHC,C7P°C7C-C"7C PeC-C7C,PePsPIPsPiPs
PjPsP·PeC7 C-PSC,,PµPeC+C-PNèPSPePjPe P·P±CrPrPSPèPeP°PjPe P°P±Ps
PiCrC...P»PèPSPSPePj CrC7P°P¶PµPSPSC7Pj, PSPµ PIC7C,P°PSPsPIP»PµPSPèPNè.

PkC7PsP±P»PèPIC- P·P°C7C,PµC7PµP¶PµPSPSC7 PrP»C7 PiP°C7C-C"7C,C-PI P· P'P7P»
C-PSC,,PµPeC+C-C"7C.

PαPsC7PjC2P»P° PeC7PsPIC-.

PkPµPsP±C...C-PrPSPs C7PµPiCrP»C7C7PSPs PIPèP·PSP°C#P°C,Pè P°P±C7PsP»C7C,PSC7
PeC-P»CHPeC-C7C,CH PSPµPNèC,C7PsC,,C-P»C-PI, PsC7PsP±P»PèPIPs PiC7PsC,C7PiPsPj
PiPµC7CèPèC... PrPµPeC-P»CHPePsC... C,PèP¶PSC-PI P»C-PeC7PIP°PSPSC7
PiC7PµPiP°C7P°C,PsPj. P"µC7PeC- PiP°C7C-C"7C,Pè PrCrP¶Pµ CèPIPèPrPePs C- P·
C7C7C,C,C"PIPèPj P·P±C-P»CHCèPµPSPSC7Pj PeC-P»CHPePsC7C,C-
PSPµPNèC,C7PsC,,C-P»C-PI PIC-PrPiPsPIC-PrP°C7C,CH PSP° PiPsC#P°C,PePsPIC- PrPsP·Pè
C,,C-P»PiC7P°C7C,PèPjCr. PµC7Pè P»C-PeC7PIP°PSPSC- PiC7PµPiP°C7P°C,PsPj
PSPµPsP±C...C-PrPSPs C%PsPrPµPSPSPs PiC7PsC,C7PiPsPj PiPµC7CèPèC...
PrPµPeC-P»CHPePsC... PrPSC-PI PIPèP·PSP°C#P°C,Pè P°P±C7PsP»C7C,PSPµ C#PèC7P»Ps
PSPµPNèC,C7PsC,,C-P»C-PI. P"°P»C- C7PµPePsPjPµPSPPrC7C,C7C7C7C PIPèP·PSP°C#P°C,Pè
P°P±C7PsP»C7C,PSC7 PeC-P»CHPeC-C7C,CH PSPµPNèC,C7PsC,,C-P»C-PI
C%PsPSP°PNèPjPµPSCèPµ 2 C7P°P·Pè PSP° C,PèP¶PrPµPSC7 PiC7PsC,C7PiPsPj PiPµC7CèPèC...
2 C,PèP¶PSC-PI C- PiC-C7P»C7 C7CHPsPiPs 1 C7P°P· PSP° C,PèP¶PrPµPSC7 P°P±Ps
C#PµC7PµP· C,PèP¶PrPµPSC7 PiC-Pr C#P°C7 PiC-PrC,C7PèPjCrC7C#PsC— C,PµC7P°PiC-C—.
PµC7Pè PiC7PsPIPµPrPµPSPSC- PiC-PrC,C7PèPjCrC7C#PsC— C,PµC7P°PiC-C—
C,,C-P»PiC7P°C7C,PèPjPsPj Cr PrPsP·C- 300 PjPePi PSP° PrPsP±Cr P·P°
PiPµC7PµC7PèPIC#P°C7C,PsC7 C7C...PµPjPsC7 PjPsP¶P»PèPIC- P·PSP°C#PSC-
PePsP»PèPIP°PSPSC7 PeC-P»CHPePsC7C,C- PSPµPNèC,C7PsC,,C-P»C-PI. P—
CrC7P°C...CrPIP°PSPSC7Pj PePsP»PèPIP°PSPSC7 P·PSP°C#PµPSC7 P°P±C7PsP»C7C,PSPsPiPs
PeC-P»CHPePsC7C,C- PSPµPNèC,C7PsC,,C-P»C-PI, PrP»C7 PIPèP·PSP°C#PµPSPSC7
PrC-PNèC7PSPsPiPs PSP°PNèPSPèP¶C#PsPiPs C7C-PIPSC7 P°P±C7PsP»C7C,PSPsC—
PeC-P»CHPePsC7C,C- PSPµPNèC,C7PsC,,C-P»C-PI P·P°P±C-C7 PeC7PsPIC- PrP»C7
PIPèP·PSP°C#PµPSPSC7 P°P±C7PsP»C7C,PSPsC— PeC-P»CHPePsC7C,C-
PSPµPNèC,C7PsC,,C-P»C-PI PSPµPsP±C...C-PrPSPs PiC7PsPIPsPrPèC,Pè
P±PµP·PiPsC7PµC7PµPrPSC7Ps PiPµC7PµPr PIPµPrPµPSPSC7Pj PSP°C7C,CrPiPSPsC—
PrPsP·Pè PiC7PµPiP°C7P°C,C7.

PŸPïP»PµPSPsPjPµPiP°P»C-Ц Ц”

P±PµP·PïPsCÍPµCЪPµPГPSC-Pj
PµC,,PµPεC,PсPj C,PµCЪP°PïC-C—
PïCЪPµPïP°CЪP°C,P°PjPë
C,,C-P»PiCЪP°CÍC,PëPjCÍ. Pj 31 %
PïP°C†C-C”PSC,C-PI, CЦPεC-
PsC,CЪPëPjCÍPIP°P»Pë
P»C-PεCÍPIP°PSPSCЦ
C,,C-P»PiCЪP°CÍC,PëPjPsPj CÍ
PεP»C-PSC-C‡PSPëC...
PГPsCÍP»C-PГP¶PµPSPSCЦC...,
PIPëCЦPIP»CЦP»P°CÍCЦ
CÍPïP»PµPSPsPjPµPiP°P»C-Ц PïCЪPë
PïP°P»CЪPïP°C†C-C—.
P—P±C-P»CЪC€PµPSPSCЦ
CЪPsP·PjC-CЪC-PI CÍPµP»PµP·C-PSPεPë
P·P° PГP°PSPëPjPë
CЪPµPSC,PiPµPSPsPiCЪP°C,,C-C—
PIPëCЦPIP»CЦP»PsCÍCЦ CЪP°PSPs PïCЪPë
P»C-PεCÍPIP°PSPSC-
C,,C-P»PiCЪP°CÍC,PëPjPsPj C- PjP°P»Ps
C,PµPSPГPµPSC†C-CЪ PГPs
CÍC,P°P±C-P»C-P·P°C†C-C—.

$P - PSP\ddot{e}P \parallel P_{\mu}PSPSC \sqcup P_{\Gamma}P_sP \cdot P\ddot{e}$
 $P\ddot{i}C_{\mathcal{H}}P\ddot{e}P \cdot PIP_sP_{\Gamma}P\ddot{e}P \gg P_s P_{\Gamma}P_s$
 $C\acute{I}P\ddot{i}P_sPIC - P \gg CH\ddot{P}SP_{\mu}PSPSC \sqcup P^{\circ}P_{\pm}P_s$
 $P \cdot C\acute{I}P\ddot{i}P\ddot{e}PSP\epsilon P\ddot{e}$
 $P\ddot{i}C_{\mathcal{H}}P_sP\ddot{i}C_{\mathcal{H}}P_{\mu}C\acute{I}C\acute{I}PIP^{\circ}PSPSC \sqcup$
 $P \cdot P_{\pm}C - P \gg CH\ddot{C}\epsilon P_{\mu}PSPSC \sqcup$
 $C\acute{I}P_{\mu}P \gg P_{\mu}P \cdot C - PSP\epsilon P\ddot{e}.$
 $P_{\mu}C_{\mathcal{H}}P_sPIP_{\mu}P_{\Gamma}P_{\mu}PSPSC \sqcup$
 $C\acute{I}P\ddot{i}P \gg P_{\mu}PSP_{\mu}P\epsilon C, P_sP_jC - C - P_{\pm}C\acute{I}P \gg P_s$
 $P\ddot{i}P_sC, C_{\mathcal{H}}C - P_{\pm}PSP_s \ 3 \% P\ddot{i}P^{\circ}C\ddagger C - C''PSC, C - PI.$
 $P P_{\mu}P\epsilon P_sP_jP_{\mu}PSP_{\Gamma}C\acute{I}C''C, CH\ddot{C}\acute{I}C \sqcup$
 $C_{\mathcal{H}}P_{\mu}P\ddot{i}C\acute{I}P \gg C \sqcup C_{\mathcal{H}}PSP_{\mu}$
 $PIP\ddot{e}P \cdot PSP^{\circ}C \ddagger P_{\mu}PSPSC \sqcup C_{\mathcal{H}}P_sP \cdot P_jC - C_{\mathcal{H}}C - PI$
 $C\acute{I}P_{\mu}P \gg P_{\mu}P \cdot C - PSP\epsilon P\ddot{e}. P P_sP \cdot P_jC - C_{\mathcal{H}}P\ddot{e}$
 $C\acute{I}P_{\mu}P \gg P_{\mu}P \cdot C - PSP\epsilon P\ddot{e} C\acute{I}P \gg C - P_{\Gamma}$
 $P\epsilon P_sPSC, C_{\mathcal{H}}P_sP \gg CH\ddot{P}IP^{\circ}C, P\ddot{e}$
 $C_{\mathcal{H}}P_{\mu}P\ddot{i}C\acute{I}P \gg C \sqcup C_{\mathcal{H}}PSP_s C\epsilon P \gg C \sqcup C \dots P_sP_j$
 $P^{\circ}P_{\pm}P_{\Gamma}P_sP_jC - PSP^{\circ}P \gg CH\ddot{P}SP_sC -$
 $P\ddot{i}P^{\circ}P \gg CH\ddot{P}\ddot{i}P^{\circ}C\ddagger C - C -.$

$P_j PSP_{\mu}PIP_{\mu}P \gg P\ddot{e}P\epsilon P_sC -$
 $P\epsilon C - P \gg CH\ddot{P}\epsilon P_sC\acute{I}C, C - C \dots PIP_sC_{\mathcal{H}}P\ddot{e}C \dots$
 $C\acute{I}P\ddot{i}P_sC\acute{I}C, P_{\mu}C_{\mathcal{H}}C - P\ddot{i}P^{\circ}P \gg P\ddot{e}C\acute{I}C \sqcup$
 $P\ddot{i}P_{\mu}P_jP^{\circ}C, C\acute{I}C_{\mathcal{H}}C - C \sqcup / P\ddot{i}C_{\mathcal{H}}P_sC, P_{\mu}C - PSC\acute{I}C$

PiCḡPëP·PSP°C‡P°C,Pë
C,,C-P»PiCḡP°CÍC,PëPj C,P°PεPëPj
PïP°C†C-C”PSC,P°Pj C- CḡPμC,PμP»CH̄PSPs
PjPsPSC-C,PscḡCíPIP°C,Pë
PIC-PΓPïPsPIC-PΓPSC-
P»P°P±PsCḡP°C,PscḡPSC-
PïP°CḡP°PjPμC,CḡPë C,P°
PïP°Pjвḡ™ CЦC,P°C,Pë PiCḡPs
PjPsP¶P»PëPIPëP№ P·PI'CЦP·PsPε C-P·
PIPëPSPëPεPSPμPSPSCЦPj
CÍPïP»PμPSPsPjPμPiP°P»C-C— C-
PIP°P·PsPsPεP»CḡP·PëPIPSPëC...
PεCḡPëP·C-PI.

PḡPïPëCÍP°PSC- PIPëPïP°PΓPεPë
CÍPμCḡPïPsPIPëPΓPSPsPεP»C-C,PëPSPSPëC
... PεCḡPëP·C-PI PSP° C,P»C-
PiCḡPëP№PsPjCí C,,C-P»PiCḡP°CÍC,PëPjCí,
PΓPμCЦPεC- вḡ“ P· P»PμC,P°P»CH̄PSPëPj
PSP°CÍP»C-PΓPεPsPj. PŷPsPjCí
PSPμPsP±C...C-PΓPSPs
PΓPsC,CḡPëPjCíPIP°C,PëCÍCЦ
PsP±PμCḡPμP¶PSPsCÍC,C- PiCḡPë
PiCḡPëP·PSP°C‡PμPSPSC-

C,,C-P»PiCḡP°CÍC,PëPjCí PïP°C†C-C”PSC,P°Pj C-P. CÍPµCḡPïPsPIPëPḡPSPsPεP»C-C,PëPSPSPsC ḡ P°PSPµPjC-C”Cḡ, CḡPµC,PµP»CḡPSPs PsC†C-PSPëPICεPë PεPsCḡPëCÍC,Cḡ C- PjPsP¶P»PëPIC- CḡPëP·PëPεPë.

PIPµCḡPëPj P· PsCÍC,PµPsPïPsCḡPsP·PsPj C- CÍC†PíC†C,PSCHPsCḡ PïP°C,PsP»PsPiC-C”Cḡ
PεC-CÍC,PsPε, C†PεC- PsPrPµCḡP¶C†CḡC,Cḡ P±PµP·PïPµCḡPµCḡPIPSPµ
P»C-PεC†PIP°PSPSC† C,,C-P»PiCḡP°CÍC,PëPjPsPj PíCḡPsC,C†PiPsPj 6 PjC-CÍC†C†C-PI C-
P±C-P»CḡCεPµ, PïPsPεP°P·P°PSPµ PíCḡPsPIPµPrPµPSPSC† PεPsPSC,CḡPsP»Cḡ P·P°
C%oC-P»CḡPSC-CÍC,Cḡ PεC-CÍC,PεPsPIPsC— CḡPµC†PsPIPëPSPë.

P>C-PεP°CḡCÍCḡPεPëPµ P·P°CÍC-P± PíCḡP°PεC,PëC†PSPs PSPµ PjC-CÍC,PëC,Cḡ
PSP°C,CḡC-Cḡ.

PïPεC%oPs C† P°P°C† PICÍC,P°PSPsPIP»PµPSP° PSPµPïPµCḡPµPSPsC†PëPjC-CÍC,Cḡ
PrPµC†PεPëC... C†C†PεCḡC-PI, PíCḡPsPεPsPSCÍC†P»CḡC,C†PµC,C†CÍC† P· P»C-PεP°CḡPµPj,
PïPµCḡCε PSC-P¶ PíCḡPëPµPjP°C,Pë C†PµPµ P»C-PεP°CḡCÍCḡPεPëPµ P·P°CÍC-P±.

**P—P°CÍC,PsCÍC†PIP°PSPSC† C† PïPµCḡC-PsPr PIP°PiC-C,PSPsCÍC,C- P°P±Ps
PïPsPrC†PIP°PSPSC† PíCḡC†PrPrCḡ.** P·PµP·PïPµPεP° P·P°CÍC,PsCÍC†PIP°PSPSC†
C,,C-P»PiCḡP°CÍC,PëPjC† C† PïPµCḡC-PsPr PIP°PiC-C,PSPsCÍC,C- PSPµ
PICÍC,P°PSPsPIP»PµPSP°. P†Pµ CḡPµPεPsPjPµPSPPrPsPIP°PSPs P·P°CÍC,PsCÍC†PíC†PIP°C,Pë C†
PïPµCḡC-PsPr PIP°PiC-C,PSPsCÍC,C-. P†PµPIC-PrPsPjPs, C†Pë PíCḡPsPSPëPεP°C”
C,,C-P»PiCḡP°CÍC,PëPj C† PíCḡC†PrPSPµ PjPsP»PsPεPs, C,PsPjC† P·P°CÍC,PsCÍC†PíC†PIP°C,Pë
PµPsPïPs C† PïPµCḡC-PsPr PïPsPrC†PIP°PSPSC† PíCḡC†PrPrCḡ PSPµ
CḡPµPεPsPjPµPSPPrC†C”C,CḡCÍC†.

**P—PrP°C,PSC-CÍC,Cḡ PIPïP»PëPIP°C,Pë PSP° CεPIPëPrPεC-CÍC,Cḡ
CḡPµP°PεC†C-C— PíCḡPë PεPµCḡC†PIP°PSPSC-
P°PIC,PsC,CḡP°PSC†PïPsCḡC,PsPj P°P±Ps C-PSCεPëPjPë
PjPµC...P°PSC-P·PjP°PjPë.** P†Pµ PrPsC†P»C-PrP¶C†PIP°P»P°CÍC†.

PŸPïPsCÍC-P± P·P°CÍC,PsCÍC†PIP°PSPSC† C,P° PrPsP·Pë.

PµCḡPë PíCḡPsPIPµPrPµPSPSC- C†PëC,PsC,PsPεC†PëC†PSPsC—
C...C-PjC-PsC,PµCḡP°PíC-C— P·P° CÍC,P°PSPPrP°CḡC,PSPëPjPë CÍC...PµPjP°PjPë
PíCḡPµPïP°CḡP°C, PíCḡPëP·PSP°C†P°C,Pë PïPs 0,5 PjP»PS PḡPḡ (5 PjPεPi) PSP° 1 PεPi

PjP°CÍPë C,C-P»P° 1 CĤP°P· PSP° PrPsP±CÍ PíC-PrC€PeC-CĤPSPs P°P±Ps
C€P»CÍC...PsPj PIPSCÍC,CĤC-C€PSCĤPsPIPµPSPSPsPiPs PIPµPrPµPSPSCÍ.

PµCĤPë PjC-C”P»PsP°P±P»P°C,PëPIPSC-PNë C,PµCĤP°PíC-C— P· PíPsPrP°P»CHC€PsCĤ
C,CĤP°PSCÍPíP»P°PSC,P°C†C-C”CĤ PeC-CÍC,PePsPIPsPiPs PjPsP·PeCÍ PíPsC†P°C,PePsPICÍ
PrPsP·CÍ PíCĤPµPíP°CĤP°C,CÍ C,,C-P»PíCĤP°CÍC,PëPj 1 PjP»PS PĤPĤ (10 PjPePi) PSP° 1
PePi PjP°CÍPë C,C-P»P° PSP° PrPsP±CÍ PIPsPrPëC,Pë
PIPSCÍC,CĤC-C€PSCĤPsPIPµPSPSPs PeCĤP°PíP»PëPSPSPs PíCĤPsC,CÍPiPsPj 30
C...PIPëP»PëPS P°P±Ps C€P»CÍC...PsPj P±PµP·PíPµCĤPµCĤPIPSPsC—
PIPSCÍC,CĤC-C€PSCĤPsPIPµPSPSPsC— C-PSC,,CÍP·C-C— PíCĤPsC,CÍPiPsPj
24 PiPsPrPëPS, P°P±Ps PíC-PrC€PeC-CĤPSPs.

PµPµCĤPµPr PIPSCÍC,CĤC-C€PSCĤPsPIPµPSPSPëPj PIPµPrPµPSPSCÍPj PíCĤPµPíP°CĤP°C,
CĤPsP·C†PëPSPëC,Pë CÍ 20 PjP» 5 % CĤPsP·C†PëPSCÍ PíP»CĤPePsP·Pë; PíPµCĤC€CÍ PrPsP·CÍ
PIPµPrPëC,Pë PSPµ CĤP°PSC-C€Pµ PSC-P¶ C†PµCĤPµP· 24 PiPsPrPëPSPë PíC-CÍP»CÍ
PíCĤPsPIPµPrPµPSPSCÍ C†PëC,PsC,PsPeCÍPëC†PSPsC— C,PµCĤP°PíC-C— P°P±Ps
PíPµCĤPµCÍP°PrPePëB PeC-CÍC,PePsPIPsPiPs PjPsP·PeCÍ.

PαC-P»PíCĤP°CÍC,PëPj PIPµPrCÍC,CH C%PsPrPSCÍ, PíPsPePë PeC-P»CHPeC-CÍC,CH
PSPµPNëC,CĤPsC,,C-P»CHPSPëC... PíCĤP°PSCÍP»PsC†PëC,C-PI PSPµ PrPsCÍCÍPiPSPµ
PsC†C-PeCÍPIP°PSPëC... PjC-PSC-PjP°P»CHPSPëC... P·PSP°C†PµPSCĤ, P° PíPsC,C-Pj C-
PSPsCĤPjPë. PýCĤPëPIP°P»C-CÍC,CH P»C-PeCÍPIP°PSPSCÍ PjPsP¶Pµ CÍC,P°PSPsPIPëC,Pë PrPs
14 PrPSC-PI P·P°P»PµP¶PSPs PIC-Pr C,PëPíCÍ PrPsP· C- CÍC...PµPjPë
C†PëC,PsC,PsPeCÍPëC†PSPsC— C...C-PjC-PsC,PµCĤP°PíC-C—.

PkP° C,P»C- PíCĤPsPIPµPrPµPSPsC— C†PëC,PsC,PsPeCÍPëC†PSPsC—
C...C-PjC-PsC,PµCĤP°PíC-C— PSP°P±CÍC,Pµ P·P±C-P»CHC€PµPSPSCÍ
PeC-P»CHPePsCÍC,C- PSPµPNëC,CĤPsC,,C-P»CHPSPëC... PíCĤP°PSCÍP»PsC†PëC,C-PI
CÍPíPsCÍC,PµCĤC-PíP°C”C,CHCÍCÍ P·P°P·PIPëC†P°PNë C†PµCĤPµP· 1BĤ”2 PrPSC-
PíC-CÍP»CÍ PíPsC†P°C,PeCÍ P»C-PeCÍPIP°PSPSCÍ C,,C-P»PíCĤP°CÍC,PëPjPsPj. PkPµ
CĤPµPePsPjPµPSPrCÍC”C,CHCÍCÍ PIC-PrPjC-PSCÍC,Pë PíCĤPµPíP°CĤP°C, PrPs
PrPsCÍCÍPiPSPµPSPSCÍ PSPµPsP±C...C-PrPSPsPiPs PjC-PSC-PjP°P»CHPSPsPiPs
P·PSP°C†PµPSPSCÍ PeC-P»CHPePsCÍC,C- PSPµPNëC,CĤPsC,,C-P»CHPSPëC...
PíCĤP°PSCÍP»PsC†PëC,C-PI.

PµC-CÍP»CÍ PjP°PeCÍPëPjP°P»CHPSPsPiPs P·PjPµPSC€PµPSPSCÍ
PeC-P»CHPePsCÍC,C- PSPµPNëC,CĤPsC,,C-P»CHPSPëC... PíCĤP°PSCÍP»PsC†PëC,C-PI
PrPsP±PsPICÍ PrPsP·CÍ CÍP»C-Pr PIC-PrPePsCĤPëPíCÍPIP°C,Pë P·
CÍCĤP°C...CÍPIP°PSPSCÍPj PrPëPSP°PjC-PePë C—C... PeC-P»CHPePsCÍC,C-:
CÍPeC%Ps PeC-P»CHPeC-CÍC,CH PSPµPNëC,CĤPsC,,C-P»CHPSPëC...
PíCĤP°PSCÍP»PsC†PëC,C-PI PíPµCĤPµPIPëC%CrC” 1000 CÍ 1 PjPj³ B PíCĤPsC,CÍPiPsPj 3
PrPSC-PI PíC-PrCĤCÍPr, PrPsP·CÍ PíCĤPµPíP°CĤP°C,CÍ CÍP»C-Pr P·PSPëP¶CÍPIP°C,Pë
PrPs 0,5 PjP»PS PĤPĤ (5 PjPePi)/PePi PSP° PrPsP±CÍ; PíPsC,C-Pj, CÍPeC%Ps
P°P±CÍPsP»CĤC,PSP° PeC-P»CHPeC-CÍC,CH PSPµPNëC,CĤPsC,,C-P»CHPSPëC...
PíCĤP°PSCÍP»PsC†PëC,C-PI PíPµCĤPµPIPëC%CrC” 1000 CÍ 1 PjPj³ B C,P°PePsP¶
PíCĤPsC,CÍPiPsPj 3 PrPSC-PI, PíCĤPµPíP°CĤP°C, CÍP»C-Pr PIC-PrPjC-PSPëC,Pë.
PíPeC%Ps CÍ PíCĤPsC†PµCÍC- P»C-PeCÍPIP°PSPSCÍ P°P±CÍPsP»CĤC,PSP°
PeC-P»CHPeC-CÍC,CH PSPµPNëC,CĤPsC,,C-P»CHPSPëC... PíCĤP°PSCÍP»PsC†PëC,C-PI
P·PSPëP¶CÍC”C,CHCÍCÍ <1000 PI 1 PjPj³, PrPsP·CÍ PíCĤPµPíP°CĤP°C,CÍ

PiPsC,CTHC-P±PSPs PiC-PrPIPëC%oPëC,Pë P·PSPsPICr PIC-PrPiPsPIC-PrPSPs PrPs
PiCTHPëPIPµPrPµPSPsC— CÍC...PµPjPë.

PµCTHPë C,CÍP¶PeC-PNë PICHTPsPrP¶PµPSC-PNë PSPµPNëC,CTHPsPiPµPSC-C—
C,,C-P»PiCTHP°CÍC,PëPj PIPiPsPrPëC,Pë Cr PiPsC±P°C,PePsPIC-PNë PrPsP·C- 1,2 PjP»PS
PµPh (12 PjPePi)/PePi PSP° PrPsP±Cr PiC-PrCëPeC-CTHPSPs P°P±Ps
CTHPsP·PiPsPrC-P»CÍC,Pë PrPsP±PsPICr PrPsP·Cr PSP° PrPµPeC-P»CHPeP°
PIPIPµPrPµPSCH.

PµCTHPë C,CÍP¶PeC-PNë C...CTHPsPSC-C±PSC-PNë P°P±Ps PiPµCTHC-PsPrPëC±PSC-PNë
PSPµPNëC,CTHPsPiPµPSC-C— BTH“ PiPs 0,5 PjP»PS PµPh (5 PjPePi)/PePi PSP° PrPsP±Cr
PiC-PrCëPeC-CTHPSPs PsPrPSPsCTHP°P·PsPIPs P°P±Ps CTHPsP·PiPsPrC-P»CÍCTHC±Pë PSP°
PrPµPeC-P»CHPeP° PIPiPµPrPµPSCH.

PÍPIPsCTHPëPj P· C,CÍP¶PePsCTH C...CTHPsPSC-C±PSPsCTH PSPµPNëC,CTHPsPiPµPSC-C”CTH
C,,C-P»PiCTHP°CÍC,PëPj CÍP»C-Pr PIPiPsPrPëC,Pë C%oPsPrPSCÍ PiC-PrCëPeC-CTHPSPs,
PiPsPePë PeC-P»CHPeC-CÍC,CH PSPµPNëC,CTHPsC,,C-P»CHPSPëC...
PiCTHP°PSCrP»PsC±PëC,C-PI PSPµ P±CrPrPµ CÍC,P°P±C-P»CHPSPs
PiPµCTHPµPIPëC%oCrPIP°C,Pë 1500 Cr 1 PjPj³. PµC-CÍP»CÍ PrPsCÍCÍPiPSPµPSPSCÍ
C,PµCTHP°PiPµPIC,PëC±PSPsPiPs PµC,,PµPeC,Cr CÍP»C-Pr PIPëP·PSP°C±P°C,Pë
PµC,,PµPeC,PëPIPSCr PjC-PSC-PjP°P»CHPSCr PiC-PrC,CTHPëPjCrCTHC±Cr PrPsP·Cr.
P”P»CÍ PiC-PrC,CTHPëPjPePë PSPµPsP±C...C-PrPSPsC— PeC-P»CHPePsCÍC,C-
PSPµPNëC,CTHPsC,,C-P»CHPSPëC... PiCTHP°PSCrP»PsC±PëC,C-PI PiPsC,CTHC-P±PSPµ
C,CTHPëPIP°P»Pµ C%oPsPrPµPSPSPµ PIPiPµPrPµPSPSCÍ PiCTHPµPiP°CTHP°C,Cr.
PSPµCTHPµP· 1BTH“2 C,PëP¶PSC- P»C-PeCrPIP°PSPSCÍ PiPsC±P°C,PePsPICr PrPsP·Cr
PjPsP¶PSP° PiPsPrPIPsC—C,Pë P°P±Ps PSP°PiPsP»PsPIPëPSCr P·PjPµPSCëPëC,Pë
P·P°P»PµP¶PSPs PIC-Pr CTHPµP°PeC±C-C— C...PIPsCTHPsPiPs PSP° C,PµCTHP°PiC-CTH. Pj
PiPsPrP°P»CHCëPsPjCr PePsP¶PSC- 1-2 C,PëP¶PSC- PjPsP¶PSP° PiCTHPsPIPsPrPëC,Pë
C-PSPPrPëPIC-PrCrP°P»CHPSCr PePsCTHPµPeC±C-CTH PrPsP·Pë PrP»CÍ
PiC-PrC,CTHPëPjPePë CÍPµCTHPµPrPSCHPSc— PeC-P»CHPePsCÍC,C-
PSPµPNëC,CTHPsC,,C-P»CHPSPëC... PiCTHP°PSCrP»PsC±PëC,C-PI Cr PrC-P°PiP°P·PsPSC-
1500BTH“10000 PI 1 PjPj³. P”P»CÍ C...PIPsCTHPëC... C-P· PIP°P¶PePëPjPë
C-PSC,,PµPeC±C-CÍPjPë PjPsP¶PSP° P·P°CÍC,PsCÍPsPICrPIP°C,Pë CÍC...PµPjCr P·
P±C-P»CHCë CëPIPëPrPePëPj PiC-PrPIPëC%oPµPSPSCÍPj PrPsP·Pë.

P PsP·PIPµPrPµPSC- CTHPsP·C±PëPSPë PiCTHPµPiP°CTHP°C,Cr PiC-CÍP»CÍ
PiCTHPëPiPsC,CrPIP°PSPSCÍ PiPsC,CTHC-P±PSPs P·P±PµCTHC-PiP°C,Pë PI
C...PsP»PsPrPëP»CHPSPëPeCr PiCTHPë C,PµPjPiPµCTHP°C,CrCTHC- 2BTH“8 B°PŸ PSPµ
P±C-P»CHCëPµ 24 PiPsPrPëPS.

P”C-C,Pë. P—P°CÍC,PsCÍPsPICrPIP°C,Pë PrC-C,CÍPj PIC-PePsPj PIC-Pr 2 CTHPsPeC-PI
PiCTHPë C,PµCTHP°PiC-C—, C%oPs CÍPiCTHCÍPjPsPIP°PSP° PSP° P·P±C-P»CHCëPµPSPSCÍ
PeC-P»CHPePsCÍC,C- PSPµPNëC,CTHPsC,,C-P»CHPSPëC... PiCTHP°PSCrP»PsC±PëC,C-PI, PrP»CÍ
P·PSPëP¶PµPSPSCÍ C±P°CÍC,PsC,Pë C- PrP»CÍ CÍPePsCTHPsC±PµPSPSCÍ
C,CTHPëPIP°P»PsCÍC,C- C-PSC,,PµPeC±C-PNëPSPëC... CrCÍPeP»P°PrPSPµPSCH Cr PrC-C,PµPNë P·
C,CÍP¶PePsCTH PICHTPsPrP¶PµPSPsCTH, PiPµCTHC-PsPrPëC±PSPsCTH P°P±Ps

P·P»PsCłPpE-C-ĆPSPsCĤ PSPμPMĉC,CĤPsPĭPμPSC-C"Ĥ (P°P±ĆPpsP»ĤC,C,PSP°
PeC-P»ĤĤPeC-ĆĤC,ĤĤ PSPμPMĉC,CĤPsC,,C-P»ĤĤPSPĕC... PiĤĤP°PSCřP»PsC†PĕC,C-PI <500 Ćř
1 PjPj³) C,P° P· C,ĤP¶PePĕPjPĕ P°P±Ps ĤĤPμC†PĕPrPĕPICřĤC†PĕPjPĕ C-PSC,,PμPeC†C-ĤPjPĕ
PI P°PSP°PjPSPμP·C-.

PμPμĤĤPμPrPsP·CáPIP°PSPSCł. P·C,,PμPeC,C-PI, PiPsPIĤĤ™ ĤP·P°PSPĕC... C-P·
PĭPμĤĤPμPrPsP·ĆřPIP°PSPSCłPj C,,C-P»PiĤĤP°ĆĤC,PĕPjĆř, PICĤC,P°PSPsPIP»PμPSPs PSPμ
P±ĆřP»Ps.

PJ PĭP°C†C-C"PS-C-PI P· C,ĤP¶PePsCĤ C...ĤĤPsPSC-C†PSPsCĤ
PSPμPMĉC,CĤPsPĭPμPSC-C"Ĥ PiĤĤPĕ P·P°ĆĤC,PsĆĤĆřPIP°PSPSC-
C,,C-P»PiĤĤP°ĆĤC,PĕPjĆř Ćř PrPsP·P°C..., ĤPpE-C- PĭPμĤĤPμPIPĕC%oĆřPIP°P»Pĕ 14,5
PjP»PS PĤPĤ (145 PjPePi)/PePi PjP°ĆĤPĕ C,C-P»P° PSP° PrPsP±Ćř, ĤĤPĕPjPĭC,PsPjPĕ
PĭPμĤĤPμPrPsP·ĆřPIP°PSPSCł PSPμ ĤĤPiPsĆĤC,PμĤĤC-PiP°P»PĕĆĤCł.

PμĤĤPĕ PĭPμĤĤPμPrPsP·ĆřPIP°PSPSC- PIC-PrPjC-PSP° C,,C-P»PiĤĤP°ĆĤC,PĕPjĆř
ĆĤĆřPĭĤĤPsPIPSPřP¶ĆřPIP°P»P°ĆĤCł P·PSPĕP¶PμPSPSCłPj PeC-P»ĤĤPePsĆĤC,C-
PSPμPMĉC,CĤPsC,,C-P»C-PI PSP° 50 % PiĤĤPsC,ĤPpPsPj 1ĤĤ"2 PrPSC-PI C-
PĭPsPIPμĤĤPSPμPSPSCłPj PrPs PSPsĤĤPjPĕ PiĤĤPsC,ĤPpPsPj 1ĤĤ"7 PrPSC-PI.

PμPsP±C-C†PSC- ĤĤPμP°PeC†C-C—. B

PμP°C†C-C"PS-C,Pĕ P· C,ĤP¶PePsCĤ C...ĤĤPsPSC-C†PSPsCĤ PSPμPMĉC,CĤPsPĭPμPSC-C"Ĥ

PĤP°PMĉC†P°ĆĤC,C-CĕPĕPjPĕ PeP»C-PSC-C†PSPĕPjPĕ PSPμP±P°P¶P°PSPĕPjPĕ ĤPPIPĕC%oP°PjPĕ
P±ĆřP»Pĕ P±C-P»ĤĤ Ćř PeC-ĆĤC,PeP°C... C- P·P°PiP°P»ĤĤPSPĕPMĉ PjĤĤ™ ĤP·PsPIPĕPMĉ
P±C-P»ĤĤ. PŞP°ĆĤC,PsC,P° C†PĕC... PiPsP±C-C†PSPĕC... ĤĤPμP°PeC†C-PMĉ PiĤĤPĕ
P·P°ĆĤC,PsĆĤĆřPIP°PSPSC- C,,C-P»PiĤĤP°ĆĤC,PĕPjĆř P· C†P°ĆĤPsPj
P·PjPμPSCĕĆřC"Ĥ,ĤĤĆĤCł. PŷP°PePsP¶ ĤĤPiPsĆĤC,PμĤĤC-PiP°P»P°ĆĤCł
ĆĤPiP»PμPSPsPjPμPiP°P»C-Cł, ĤPpE° P·P°P·PIPĕC†P°PMĉ PSPμ PiĤĤPsPiĤĤPμĆĤĆřC", C,P°
C,ĤĤPsPjP±PsC†PĕC,PsPĭPμPSC-Cł. PμĤĤPs PiPsP»PsPIPSPĕPMĉ P±C-P»ĤĤ C- PrC-P°ĤĤPμĤĤ
PĭPsPIC-PrPsPjP»ĤP»PsĆĤCł PSPμPIPřPsPIP·C- PĭC-ĆĤP»Cł PiPsC†P°C,PeĆř C,PμĤĤP°PĭC-C—
C,,C-P»PiĤĤP°ĆĤC,PĕPjPsPj, P·P°P·PIPĕC†P°PMĉ Ćř PjPμPSCĕ PSC-P¶ 10 % PĭP°C†C-C"PS-C-PI.
PŷP°PePsP¶ PiPsPIC-PrPsPjP»ĤP»PsĆĤCł PiĤĤPs P°PSPμPjC-ĤĤ C- PSPsĆĤPsPICř
PeĤĤPsPIPsC,PμC†Ćř P· C,P°PePsCĤ P¶ C†P°ĆĤC,PsC,PsCĤ PIPĕPSPĕPePSPμPSPSCł, P°P»Pμ
P»PĕCĕPμ PiĤĤPĕ PrPsPIPiPsC,ĤĤPĕPIP°P»PsPjĆř P»C-PeĆřPIP°PSPSC-.
PμPsPIC-PrPsPjP»ĤP»PsĆĤCł PiĤĤPs C,ĤĤP°PSP·PĕC,PsĤĤPSPμ P·P±C-P»ĤĤCĕPμPSPSCł
PePsPSC†PμPSC,ĤĤP°C†C-C— ĤĤPμC†PsPIPsC— PePĕĆĤP»PsC,Pĕ, P°PeC,PĕPIPsPsĆĤC,C-
P»P°PeC,P°C,PrPμPiC-PrĤĤPsPiPμPSP°P·Pĕ C- P»ĆřP¶PSPsC— C,,PsĆĤC,,P°C,P°P·Pĕ PI
ĆĤPĕĤĤPsPIP°C,C†C- PeĤĤPsPIC- P±PμP· PeP»C-PSC-C†PSPĕC... ĤĤPĕPjPĭC,PsPjC-PI, P°
C,P°PePsP¶ PiĤĤPs C,ĤĤP°PSP·PĕC,PsĤĤPSCř PiPsPjC-ĤĤPSCř PiC-PiPsPiP»C-PePμPjC-ĤĤ.
PμPsP±C-C†PSC- ĤĤPμP°PeC†C-C—, PjPsP¶P»PĕPIPs PiPsPIĤĤ™ ĤP·P°PSC- P·
C,PμĤĤP°PĭC-C"Ĥ C,,C-P»PiĤĤP°ĆĤC,PĕPjPsPj, P·P°P·PIPĕC†P°PMĉ PIPĕPSPĕPeP°P»Pĕ Ćř
PjPμPSCĕ PSC-P¶ 2 % PĭP°C†C-C"PS-C-PI P· C,ĤP¶PePsCĤ C...ĤĤPsPSC-C†PSPsCĤ
PSPμPMĉC,CĤPsPĭPμPSC-C"Ĥ: ĤĤPμP°PeC†C-C— Ćř PjC-ĆĤC†C- PIPiPμPrPμPSPSCł,
PiPsP»PsPIPSPĕPMĉ P±C-P»ĤĤ, PiPμPĭP°C,PsPjPμPiP°P»C-Cł, P°ĤĤC,ĤĤP°P»PiC-Cł,
P°P»PsPĭPμC†C-Cł C,P° CĕPeC-CĤPSC- PIPĕĆĤPĕPĭP°PSPSCł.

P_μC₇PsC, C₁PiPsP_j C, C₇P₆PIP^oP»PsPiPs P·P^oC₁C, PsC₁C₁PIP^oPSPSC₁ C,, C-P»PiC₇P^oC₁C, P₆PjC₁
C₁ 2 % PiP^oC₁C-C^oPSC, C-PI P· C, C₁P₁PePsC₇ C...C₇PsPSC-C₁PSPsC₇
PSP_μPN₆C, C₇PsPiP_μPSC-C^oC₇ PiPsPIC-PrPsPjP»C₁P»PsC₁C₁ PiC₇Ps C₆PeC-C₇PSP₆PN₆
PIP^oC₁PeC₁P»C-C,, P C-PrPePs PiPsPIC-PrPsPjP»C₁P»PsC₁C₁ PiC₇Ps
PiC₇PsC, P_μC—PSC₁C₇C-C₇/PiP_μPjP^oC, C₁C₇C-C₇.

P— P±PsPeC₁ C₁P₆C₁C, P_μPjP₆ PeC₇PsPIC- C, P^o P»C-PjC,, P^oC, P₆C₁PSPsC— C₁P₆C₁C, P_μPjP₆:
PrC₁P₁P_μ C₁P^oC₁C, Ps: P^oPSP_μPjC-C₁, C₁PiP_μ»P_μPSPsPjP_μPiP^oP»C-C₁; C₁P^oC₁C, Ps:
C, C₇PsPjP±PsC₁P₆C, PsPiP_μPSC-C₁; PSP_μC₁P^oC₁C, Ps: PiPsC₇C₁C₆PeP_μPSPSC₁ C,, C₁PSPeC₁C-C—
C₁P_μP»P_μP·C-PSPeP₆.

P— P±PsPeC₁ PsP±PjC-PSC₁ C₇P_μC₁PsPIP₆PS, PjP_μC, P^oP±PsP»C-P·PjC₁: PrC₁P₁P_μ
C₁P^oC₁C, Ps: PiC-PiPsPiP_μ»C-PeP_μPjC-C₁, PiC-PrPIP₆C%_oP_μPSPSC₁
P^oPeC, P₆PIPSPsC₁C, C- P»C₁P₁PSPsC— C,, PsC₁C,, P^oC, P^oP·P₆, PiC-PrPIP₆C%_oP_μPSPSC₁
P^oPeC, P₆PIPSPsC₁C, C- P»P^oPeC, P^oC, PrP_μPiC-PrC₇PsPiP_μPSP^oP·P₆,
PiC-PiP_μC₇C₁C₇P₆PeP_μPjC-C₁.

P₆P_μPiC₇PsP»PsPiC-C₁PSC- C₇PsP·P»P^oPrP₆: C₁P^oC₁C, Ps: PiPsP»PsPIPSP₆PN₆ P±C-P»C₇H.

P— P±PsPeC₁ PrP₆C...P^oP»C₇HPSPsC— C₁P₆C₁C, P_μPjP₆, PsC₇PiP^oPSC-PI PiC₇C₁PrPSPsC—
PeP»C-C, PeP₆ C, P^o C₁P_μC₇P_μPrPsC₁C, C-PSPSC₁: PrC₁P₁P_μ C₁P^oC₁C, Ps: PSPsC₁PsPIP^o
PeC₇PsPiPsC, P_μC₁P^o.

P— P±PsPeC₁ C₆P»C₁PSPePsPIPs-PeP₆C₆PePsPIPsPiPs C, C₇P^oPeC, C₁: C₁P^oC₁C, Ps:
PrC-P^oC₇P_μC₁.

P— P±PsPeC₁ PiP_μPiP^oC, PsP±C-P»C-P^oC₇PSPsC— C₁P₆C₁C, P_μPjP₆: C₁P^oC₁C, Ps:
PiP_μPiP^oC, PsPjP_μPiP^oP»C-C₁.

P— P±PsPeC₁ C₆PeC-C₇P₆ C- PiC-PrC₆PeC-C₇PSPsC— PeP»C-C, PePsPIP₆PSP₆: C₁P^oC₁C, Ps:
P^oP»PsPiP_μC₁C-C₁, C₆PeC-C₇PSP₆PN₆ PIP^oC₁PeC₁P»C-C,, C₆PeC-C₇PSP_μ PIP₆C₁P₆PiP^oPSPSC₁,
P±C-P»C₇H C₁ PjC-C₁C₁C- C-PS₆HTM C^oPeC₁C-C—, PIP₆C₁P₆PiP^oPSPSC₁.

P— P±PsPeC₁ C₁PeP_μP»P_μC, PSPs-Pj₆HTM C₁P·PsPIPsC— C₁P₆C₁C, P_μPjP₆ C, P^o
C₁PiPsP»C₁C₁PSPsC— C, PeP^oPSP₆PSP₆: PrC₁P₁P_μ C₁P^oC₁C, Ps: C₁PeP_μP»P_μC, PSPs-
Pj₆HTM C₁P·PsPIP₆PN₆ P±C-P»C₇H, P^oC₇C, C₇P^oP»PiC-C₁; C₁P^oC₁C, Ps:
PsC₁C, P_μPsPiPsC₇PsP·.

P— P±PsPeC₁ PSP₆C₇PsPe C, P^o C₁P_μC₁PsPIP₆PrC-P»C₇HPSPsC— C₁P₆C₁C, P_μPjP₆:
PSP_μC₁P^oC₁C, Ps: PiP_μPjP^oC, C₁C₇C-C₁, PiC₇PsC, P_μC—PSC₁C₇C-C₁.

P_μP^oC₁C-C^oPSC, P₆ PiC-C₁P»C₁ C...C-PjC-PsC, P_μC₇P^oPiC-C—

Pj PeP»C-PSC-C₁PSP₆C... PrPsC₁P»C-PrP₁P_μPSPSC₁C... PSP^oPN₆C₁P^oC₁C, C-C₆PePjP₆
PiPsP±C-C₁PSP₆PjP₆ C₇P_μP^oPeC₁C-C₁PjP₆, PiPsPi₆HTM C₁P·P^oPSP₆PjP₆ C-P·
P·P^oC₁C, PsC₁C₁PIP^oPSPSC₁Pj P»C-PeP^oC₇C₁C₆PePsPiPs P·P^oC₁PsP±C₁ C₁
C₇P_μPePsPjP_μPSPPrPsPIP^oPSP₆C... PrPsP·P^oC..., P±C₁P»P₆ C₁P»P^oP±PeP₆PN₆, PiPsPjC-C₇PSP₆PN₆
P^oP±Ps C, C₁P₁PeP₆PN₆ C₁PeP_μP»P_μC, PSPs-Pj₆HTM C₁P·PsPIP₆PN₆ P±C-P»C₇H.
P₆PeP_μP»P_μC, PSPs-Pj₆HTM C₁P·PsPIP₆PN₆ P±C-P»C₇H P·P^oPiP^oP»PsPj
PePsPSC, C₇PsP»C₇C^oC, C₇C₁C₁ P·PIP₆C₁P^oPN₆PSP₆PjP₆ P^oPSP^oP»PiP_μC, P₆PeP^oPjP₆. P₆P_μPSC₆
C₁P^oC₁C, P₆PjP₆ PiPsP±C-C₁PSP₆PjP₆ C₇P_μP^oPeC₁C-C₁PjP₆ P±C₁P»P₆ PiPsC₇C₁C₆PeP_μPSPSC₁
C₁P_μC₁PsPIP₆PiC₁C₁PeP^oPSPSC₁, PrP₆P·C₁C₇C-C₁ P»P_μPiPePsPiPs C- PiPsPjC-C₇PSPsPiPs

P"CrP¶Pµ CḡC-PrPePs PiPsPIC-PrPsPjP»C¶P»PsC¶C¶ PiCḡPs C¶PeC-CḡPSPëPNᅇ
PIP°C¶PeCrP»C-C, Cr PiP°C†C-C" PSC,C-PI, C¶PeC- PsC,CḡPëPjCrPIP°P»Pë
PrPsPIPiPsC,CḡPëPIP°P»Pµ P»C-PeCrPIP°PSPSC¶. P,, PiPsPIC-PrPsPjP»PµPSPSC¶ PiCḡPs
PsPeCḡPµPjC- PIPëPiP°PrPePë PiCḡPsC,PµC—PSCrCḡC-C—/PiPµPjP°C,CrCḡC-C—.
PµCḡPëP±P»PëP·PSPs Cr 1/3 PiP°C†C-C" PSC,C-PI CḡPsP·PIPëPSCrP»P°C¶Cḡ P·P°PiP°P»PsPj
C¶C¶P±PeP»C-PSC-C†PSP° C¶PiP»PµPSPsPjPµPiP°P»C-C¶ PiCḡPë PrPsPIPiPsC,CḡPëPIP°P»C-PNᅇ
C,PµCḡP°PiC-C—. PµPsPIC-PrPsPjP»C¶P»PsC¶C¶ PiCḡPs PiPsPsPrPëPSPsPeC- PIPëPiP°PrPePë
C¶PëPSPrCḡPsPjCr PŸPIC-C,P° (PiPsC¶C,CḡPëPNᅇ C,,PµP±CḡPëP»CḡPSPëPNᅇ
PrPµCḡPjP°C,PsP·). PkP° PsC¶PSPsPIC- PSP°C¶IPSPëC... PrP°PSPëC... PiCḡPëC†PëPSPSPs-
PSP°C¶P»C-PrPePsPIPëPNᅇ P·PI'C¶P·PsPe C-P· P·P°C¶C,PsC¶C¶PIP°PSPSC¶Pj
C,,C-P»PiCḡP°C¶C,PëPjCr PSPµ PIC¶C,P°PSPsPIP»PµPSPëPNᅇ. PkPµ PjPsP¶PSP°
PIPëPeP»CḡC†PëC,Pë PIC-CḡPsPiC-PrPSC-C¶C,Cḡ CḡPsP·PIPëC,PeCr C¶PëPSPrCḡPsPjCr
PŸPIC-C,P°.

P' PsPeCḡPµPjPëC... PIPëPiP°PrPeP°C... C¶PiPsC¶C,PµCḡC-PiP°P»PsC¶C¶
P·P°PiPsC¶C,CḡPµPSPSC¶ CḡPµPIPjP°C,PsC—PrPSPsPiPs P°CḡC,CḡPëC,Cr.

P C-PrPePs PiPsPIC-PrPsPjP»C¶P»PsC¶C¶ PiCḡPs PiPsP±C-C†PSC- CḡPµP°PeC†C-C— P·
P±PsPeCr P»PµPiPµPSC-PI, C-PSPsPrC- P»PµC,P°P»CḡPSC-, Cr C,PsPjCr C†PëC¶P»C-
C-PSC,PµCḡC¶C,PëC†C-P°P»CḡPSCr PiPSPµPIPjPsPSC-Cḡ PiCḡPë P·P°C¶C,PsC¶C¶PIP°PSPSC-
C,,C-P»PiCḡP°C¶C,PëPjCr PiC-C¶P»C¶ C...C-PjC-PsC,PµCḡP°PiC-C—, P·PsPeCḡPµPjP° PiCḡPë
P·P°C¶C,PsC¶C¶PIP°PSPSC- C¶C...PµPj, C¶PeC- PjC-C¶C,PëP»Pë P±P»PµPsPjC-C†PëPS,
C...PsC†P° PiCḡPëC†PëPSPSPs-PSP°C¶P»C-PrPePsPIPëPNᅇ P·PI'C¶P·PsPe P·
P»C-PeCrPIP°PSPSC¶Pj PSPµ P±CrPI PIC¶C,P°PSPsPIP»PµPSPëPNᅇ (PrPëPI.
C-PSC¶C,CḡCrPeC†C-Cḡ PrP»C¶ PjPµPrPëC†PSPsPiPs P·P°C¶C,PsC¶C¶PIP°PSPSC¶
P±P»PµPsPjC-C†PëPSCr).

P C-PrPePs PiPsPIC-PrPsPjP»C¶P»PsC¶C¶ PiCḡPs PIPëPSPëPePSPµPSPSC¶ PiPsP±C-C†PSPëC...
PµC,,PµPeC,C-PI P· P±PsPeCr P»PµPiPµPSC-PI, C,P°PePëC... C¶Pe
C-PSC,PµCḡC¶C,PëC†C-P°P»CḡPSP° PiPSPµPIPjPsPSC-C¶, PSP°P±CḡC¶Pe P»PµPiPµPSC-PI,
P»PµPiPµPSPµPIC- C-PSC,,C-P»CḡC,CḡP°C,Pë C,P° C,,C-P±CḡPsP· P»PµPiPµPSCḡ, PrPµC¶PeC-
P· PSPëC... PiCḡPëP·PIPµP»Pë PrPs PrPëC...P°P»CḡPSPsC— PSPµPrPsC¶C,P°C, PSPsC¶C,C-
P°P±Ps CḡPµC¶PiC-CḡP°C,PsCḡPSPsPiPs PrPëC¶C,CḡPµC¶-C¶PëPSPrCḡPsPjCr
PrPsCḡPsC¶P»PëC..., C¶PePëPNᅇ PjPsP¶Pµ PjP°C,Pë P»PµC,P°P»CḡPSPëPNᅇ PSP°C¶P»C-PrPsPe.

P"CrP¶Pµ CḡC-PrPePs PiPsPIC-PrPsPjP»C¶P»PsC¶C¶ PiCḡPs PiC¶PµPIPrPsPiPsPrP°PiCḡCr Cr
PiP°C†C-C" PSC,C-PI P·C- P·P»PsC¶PeC-C¶PSPëPjPë PiC¶C...P»PëPSP°PjPë, C¶PeC-
PsC,CḡPëPjCrPIP°P»Pë P»C-PeCrPIP°PSPSC¶ C,,C-P»PiCḡP°C¶C,PëPjPsPj.

P— P±PsPeCž PsP±PjC-PSCž CḡPµC†PsPIPëPS C,P° C...P°CḡC†C¶PIP°PSPSC¶: PrCrP¶Pµ
C†P°C¶C,Ps: PiC-PrPIPëC%PµPSPSC¶ P°PeC,PëPIPSPsC¶C,C- P»CrP¶PSPsC—
C,,PsC¶C,,P°C,P°P·Pë (50 %), PiC-PrPIPëC%PµPSPSC¶ P°PeC,PëPIPSPsC¶C,C-
P»P°PeC,P°C,PrPµPiC-PrCḡPsPiPµPSP°P·Pë (60 %), PiC-PiPµCḡCrCḡPëPePµPjC-C¶ (30
%), PiC-PiPµCḡPiP»C-PePµPjC-C¶.

PkPµPICḡPsP»PsPiC-C†PSC- CḡPsP·P»P°PrPë: C†P°C¶C,Ps: PiPsP»PsPIPSPëPNᅇ P±C-P»Cḡ.

P— P±PsPeCž C¶CžPrPëPS: PiPsPsPrPëPSPsPeC-: C¶C¶PrPëPSPSC- CḡPsP·P»P°PrPë,
PeP°PiC-P»C¶CḡPSPëPNᅇ C¶PëPSPrCḡPsPj, C¶PëPSPrCḡPsPj PiC-PrPIPëC%PµPSPsC—
PiCḡPsPSPëPePSPsC¶C,C- PeP°PiC-P»C¶CḡC-PI, PsPeP»CḡP·C-C¶ C¶C¶PrPëPS.

P— P±PsPeCz PrPëC...P°P»CHPSPsC— CÍPëCÍC,PµPjPë, PsCḥPiP°PSC-PI PiCḥCzPrPSPsC— PeP»C-C,PePë C,P° CÍPµCḥPµPrPsCÍC,C-PSPSCII: C‡P°CÍC,Ps: PeP°C€PµP»CH, P°PSPiC-PSP°; PíPsPsPrPëPSPsPeC-: P»PµPiPµPSPµPIC- C-PSC,,C-P»CHC,CḥP°C,Pë; PSP°P±CḥCIIPe P»PµPiPµPSC-PI, C,,C-P±CḥPsP· P»PµPiPµPSC-PI, C-PSC,PµCḥCÍC,PëC†C-P°P»CHPSP° PíPSPµPIPjPsPSC-CII, PeCḥPsPIPsC...P°CḥPeP°PSPSCII, PePsP»P°PiPµPSPsPIP° C...PIPsCḥPsP±P°, PiC-PíPsPeCÍC-CII.

P— P±PsPeCz C€P»CzPSPePsPIPs-PePëC€PePsPIPsPiPs C,CḥP°PeC,Cz: PrC†P¶Pµ C‡P°CÍC,Ps: PSC†PrPsC,P°, P±P»CḥPIP°PSPSCII; C‡P°CÍC,Ps: P·P°PiPsCḥ, P°PSPsCḥPµPeCÍC-CII, PrC-P°CḥPµCII, PjC†PePsP·PëC,.

P— P±PsPeCz PiPµPiP°C,PsP±C-P»C-P°CḥPSPsC— CÍPëCÍC,PµPjPë: PrC†P¶Pµ C‡P°CÍC,Ps: PíC-PrPIPëC%oPµPSPSCII CḥC-PIPSCII PiP°PjPjP°- PiP»C†C,P°PjC-P»C,CḥP°PSCÍPiPµPiC,PëPrP°P·Pë (10 %).

P— P±PsPeCz C€PeC-CḥPë C- PíC-PrC€PeC-CḥPSPsC— PeP»C-C,PePsPIPëPSPë: C‡P°CÍC,Ps: P°P»PsPiPµC†C-CII, PIPëCÍPëPiP°PSPSCII; PSPµC‡P°CÍC,Ps: CÍPëPSPPrCḥPsPj PŸPIC-C,P°; PíPsPsPrPëPSPsPeC-: C€PeC-CḥPSPëPNë PIP°CÍPeC†P»C-C,.

P— P±PsPeCz CÍPePµP»PµC,PSPs-Pjḥ™ CIIP·PsPIPsC— CÍPëCÍC,PµPjPë C,P° CÍPiPsP»CzC‡PSPsC— C,PeP°PSPëPSPë: C‡P°CÍC,Ps: P±C-P»CH C† PiCḥC†PrPSC-PNë PeP»C-C,C†C-, CÍPePµP»PµC,PSPs-Pjḥ™ CIIP·PsPIPëPNë P±C-P»CH; PíPsPsPrPëPSPsPeC-: P·P°PiPsCÍC,CḥPµPSPSCII CḥPµPIPjP°C,PsC—PrPSPsPiPs P°CḥC,CḥPëC,C†, PiCÍPµPIPrPs- PíPsPrP°PiCḥP°, PíPsPrP°PiCḥP°.

P— P±PsPeCz C-PjCzPSPSPsC— CÍPëCÍC,PµPjPë: CḥPµP°PeC†C-C— PiC-PíPµCḥC‡C†C,P»PëPIPsCÍC,C-, PIPeP»CḥC‡P°CḥC‡Pë P°PSPiC-PsPSPµPICḥPsC,PëC‡PSPëPNë PSP°P±CḥCIIPe, PeCḥPsPiPëPIḥ™ CIIPSPeC†, P°PSP°C,,C-P»P°PeCÍC-Cḥ, P·P°PrPëC€PeC†, PiC-PíPsC,PsPSC-Cḥ.

P— P±PsPeCz PSPëCḥPsPe C,P° CÍPµC‡PsPIPëPrC-P»CHPSPsC— CÍPëCÍC,PµPjPë: PíPsPsPrPëPSPsPeC-: PíPsCḥC†C€PµPSPSCII P·P±PsPeC† P»P°P±PsCḥP°C,PsCḥPSPëC... PíPsPeP°P·PSPëPeC-PI CÍPµC‡C- (PrPëP·C†CḥC-CII, P°PSPsPjP°P»CHPSP° CÍPµC‡P°).

P— P°PiP°P»CHPSC- CḥPsP·P»P°PrPë C,P° CḥPµP°PeC†C-C— Cz PjC-CÍC†C- PIPiPµPrPµPSPSCII: C‡P°CÍC,Ps: CÍP»P°P±PeC-CÍC,CH, PiPµPSPµCḥP°P»C-P·PsPIP°PSP° CÍP»P°P±PeC-CÍC,CH; PSPµC‡P°CÍC,Ps: PSPµC†C,PsC‡PSPµPSPëPNë P±C-P»CH; PíPsPsPrPëPSPsPeC-: P°P»PµCḥPiC-C‡PSC- CḥPµP°PeC†C-C—.

PµP°C†C-C" PSC,Pë P· P'P†P>-C-PSC,,PµPeC†C-C" Cḥ

Pj PeP»C-PSC-C‡PSPëC... PrPsCÍP»C-PrP¶PµPSPSCII... C"PrPëPSPsCḥ PíPsP±C-C‡PSPsCḥ CḥPµP°PeC†C-C" Cḥ, CIIPeP° P±C†P»P° PíPsPIḥ™ CIIP·P°PSP° C-P· P·P°CÍC,PsCÍC†PIP°PSPSCII Pj C,,C-P»PiCḥP°CÍC,PëPjC†, P±C†P»Pë P±PsP»C- PI PeC-CÍC,PeP°C... C- Pjḥ™ CIIP·P°C..., CIIPeC- PI PsCÍPSPsPIPSPsPjC† P±C†P»Pë CÍP»P°P±PeC- P°P±Ps PíPsPjC-CḥPSC-. PŸP°CÍC,PsC,P° PIPëPSPëPePSPµPSPSCII P±PsP»Cḥ P±C†P»P° PíPsPrC-P±PSPsCḥ PrPs C,P°PePsC— C† PíP°C†C-C" PSC,C-PI P· PsPSPePsP»PsPiC-C‡PSPëPjPë P·P°C...PIPsCḥCḥPIP°PSPSCII PjPë.

P' C†P»Ps PíPsPIC-PrPsPjP»PµPSPs, C%oPs CÍPiP»PµPSPsPjPµPiP°P»C-CII PíPsPIḥ™ CIIP·P°PSP° P· C,PµCḥP°PíC-C" Cḥ C,,C-P»PiCḥP°CÍC,PëPjPsPj C† <3 % PíP°C†C-C" PSC,C-PI. P' C†CÍC-C...

PIPëPïP°PrPeP°C... CÍPïP»PµPSPsPjPµPiP°P»C-CÍ P±CíP»P° P»PµPiPePsCĤ C±Pë
PïPsPjC-CĤPSPsPiPs CÍC,CíPïPµPSCÍ PïCĤPë C,,C-P·PëPeP°P»CĤPSPsPjCí
PsP±CÍC,PµP¶PµPSPSC- P·C- CÍPïCĤPëCÍC,P»PëPIPëPj PeP»C-PSC-C±PSPëPj
PïPµCĤPµP±C-PiPsPj. PkPµ P±CíP»Ps PIC-PrP·PSP°C±PµPSPs PIPëPïP°PrPeC-PI
PiC-PiPµCĤCÍPïP»PµPSC-P·PjCí. PÿPïP»PµPSPµPeC,PsPjC-CÍ PSPµ PïCĤPµPiPsPrPëP»P°CÍCĤ
Cí P¶PsPrPSPsPjCí PIPëPïP°PrPeCí. PÿPïP»PµPSPsPjPµPiP°P»C-CÍ PrPsCÍPëC,CĤ C±P°CÍC,Ps
CÍPïPsCÍC,PµCĤC-PiP°C"C,CĤCÍCÍ Cí PïP°C†C-C"PSC,C-PI P· P'P†P>-C-PSC,,PµPeC†C-C"CĤ, P°
C,P°PePsP¶ CĤC-P·PSPsPiPs CÍC,CíPïPµPSCÍ PIPëCĤP°P¶PµPSPsCÍC,C-
P·CíCÍC,CĤC-C±P°C"C,CĤCÍCÍ Cí P±C-P»CĤC€PsCÍC,C- PïP°C†C-C"PSC,C-PI P·C-
PÿPkP†P"PsPj.

P— P±PsPeCz PeCĤPsPIC- C- P»C-PjC,,P°C,PëC±PSPsC— CÍPëCÍC,PµPjPë: C±P°CÍC,Ps:
CĤPsP·P»P°PrPë C,,CíPSPeC†C-C— CÍPµP»PµP·C-PSPePë.

P— P±PsPeCz CÍPePµP»PµC,PSPs-PjβĤ™ CÍP·PsPIPSC— CÍPëCÍC,PµPjPë: PrCíP¶Pµ
C±P°CÍC,Ps: CÍPePµP»PµC,PSPs-PjβĤ™ CÍP·PsPIPëPµ P±C-P»CĤ, P°CĤC,CĤP°P»PiC-CÍ.

PµPsP±C-C±PSC- CĤPµP°PeC†C-C—, P·P°CĤPµC"CÍC,CĤPsPIP°PSC- Cz
PiC-CÍP»CÍCĤPµC"CÍC,CĤP°C†C-PNëPSPëPNë PiPµCĤC-PsPr

P— P±PsPeCz C-PjCzPSPSPsC— CÍPëCÍC,PµPjPë: CĤPµP°PeC†C-C—
PiC-PiPµCĤC±CíC,P»PëPIPSCÍC,C-, Cí C,PsPjCí C±PëCÍP»C- P°PSP°C,,C-P»P°PeCÍC-CÍ,
B C€PeC-CĤPSPµ PIPëCÍPëPïP°PSPSCÍ, PeCĤPsPiPëPiβĤ™ CÍPSPeP°, PSP°P±CĤCÍPe
PµPIC-PSPePµ, C,CÍP¶PeC- P°P»PµCĤPiC-C±PSC- CĤPµP°PeC†C-C—, P·P°PrPëC€PeP°.

PÿPëPjPiC,PsPjPë PjPsP¶CíC,CĤ CĤPsP·PIPëPIP°C,PëCÍCÍ PSP° PiPsC±P°C,PeCí
C,PµCĤP°PiC-C— P°P±Ps PïCĤPë PïPsPrP°P»CĤC€PsPjCí P»C-PeCíPIP°PSPSC-
C,,C-P»PiCĤP°CÍC,PëPjPsPj. Pj PrPµCÍPePëC... PIPëPïP°PrPeP°C... PIC-PrPSPsPIP»PµPSPSCÍ
P»C-PeCíPIP°PSPSCÍ CÍCíPïCĤPsPiPsPrP¶CíPïP°P»PsCÍCÍ CĤPµC†PëPrPëPIPpsPj
CÍPëPjPiC,PsPjC-PI, C%oPs CÍPIC-PrC±PëC,CĤ PïCĤPs PSP°CÍPIPSC-CÍC,CĤ
PïCĤPëC±PëPSPSPs-PSP°CÍP»C-PrPePsPiPs P·PiβĤ™ CÍP·PeCí.

PµCĤPë CĤPsP·PIPëC,PeCí CÍPµCĤPNëPsP·PSPëC... P°P»PµCĤPiC-C±PSPëC... CĤPµP°PeC†C-PNë
C,PµCĤP°PiC-CĤ C,,C-P»PiCĤP°CÍC,PëPjPsPj CÍP»C-Pr PïCĤPëPïPëPSPëC,Pë.

P— P±PsPeCz PeCĤPsPIC- C- P»C-PjC,,P°C,PëC±PSPsC— CÍPëCÍC,PµPjPë:
CÍPïP»PµPSPsPjPµPiP°P»C-CÍ, PïPsCĤCíC€PµPSPSCÍ C,,CíPSPeC†C-C— CÍPµP»PµP·C-PSPePë,
C,CĤPsPjP±PsC†PëC,PsPiPµPSC-CÍ, P»PµPNëPePsC†PëC,PsP·, P°PSPµPjC-CÍ, Cí
PïP°C†C-C"PSC,C-PI C-P· CÍPµCĤPïPsPIPëPrPSPsPeP»C-C,PëPSPSPsCĤ P°PSPµPjC-C"CĤ
PsPiPëCÍP°PSPs PïPsPsPrPëPSPsPeC- PIPëPïP°PrPePë
CÍPµCĤPïPsPIPëPrPSPsPeP»C-C,PëPSPSPsPiPs PeCĤPëP·Cí, PI PrPµCÍPePëC...
PIPëPïP°PrPeP°C... βĤ" P· P»PµC,P°P»CĤPSPëPj PSP°CÍP»C-PrPePsPj. P C-PrPePs
CĤPµC"CÍC,CĤCíPïP°P»PëCÍCÍ PIPëPïP°PrPePë CĤPsP·CĤPëPICí CÍPµP»PµP·C-PSPePë
Cí P·PrPsCĤPsPIPëC... PrPsPSPsCĤC-PI C- Cí PïP°C†C-C"PSC,C-PI P·
PsPSPePsP»PsPiC-C±PSPëPjPë P·P°C...PIPSCĤPïP°PSPSCÍPjPë, CÍPeC-
PsC,CĤPëPjCíPIP°P»Pë C,,C-P»PiCĤP°CÍC,PëPj.

PµPsCĤCzC€PµPSPSCÍ PjPµC,P°P±PsP»C-P·PjCz: PïPsCÍPëP»PµPSPSCÍ P°PiPµC,PëC,Cí,
PiC-PiPµCĤPiP»C-PePµPjC-CÍ, PiC-PiPµCĤCíCĤPëPePµPjC-CÍ.

P— P±PsPeCz CÍCzPrPëPS: PiC-PiPsC,PsPSC-CÍ, PeP°PiC-P»CÍCĤPSPëPNë CÍPëPSPrCĤPsPj,

СГРПЕПSPPrCГPsPj PiC-PrPIPëC%oPμPSPsC— PiCГPsPSPëPePSPsCГC,C- PeP°PiC-P»CЦCГC-PI.

P— P±PsPeCз PrPëC...P°P»CHБPSPsC— CГPëCГC,PμPjPë: PSPsCГPsPIP° PeCГPsPIPсC,PμC±P°, PeCГPsPIPсC...P°CГPeP°PSPSCЦ, PiPsCГC,CГPëPNë CГPμCГPiC-CГP°C,PsCГPSPëPNë PrPëCГC,CГPμCГ-CГPëPSPPrCГPsPj, PrPëC...P°P»CHБPSP° PSPμPrPsCГC,P°C,PSC-CГC,CHБ, PSP°P±CГCЦPe P»PμPiPμPSC-PI, PePsP»P°PiPμPSPsPIP° C...PIPсCГPsP±P°, P»PμPiPμPSPμPIP° C-PSC,,C-P»CHБC,CГP°C†C-CЦ, P»PμPiPμPSPμPIP° PeCГPsPIPсC,PμC±P°, PiC-PiPsPeCГC-CЦ.

P— P±PsPeCз PiPμPiP°C,PsP±C-P»C-P°CГPSPsC— CГPëCГC,PμPjPë: PiPμPiP°C,PsPjPμPiP°P»C-CЦ, P·P±C-P»CHБC€PμPSPSCЦ PђPŸPŸ PeCГPsPIC-.

P— P±PsPeCз CГPePμP»PμC,PSPs-PjбГ™ CЦP·PsPIPсC— CГPëCГC,PμPjPë: P·P°PiPsCГC,CГPμPSPSCЦ CГPμPIPjP°C,PsC—PrPSPsPiPs P°CГC,CГPëC,Cr, PsCГC,PμPsPiPsCГPsP·, P°CГC,CГP°P»PiC-CЦ, PrCрP¶Pμ CГC-PrPePs CГPμC”CГC,CГCрPIP°P»PëCГCЦ CЦPIPëC%oP° PiCГPμPIPPrPsPiPsPrP°PiCГPë Cr PiP°C†C-C”PSC,C-PI P· PsPSPePsP»PsPiC-C†PSPëPjPë P·P°C...PIPсCГCГPIP°PSPSCЦPjPë, CЦPeC-PsC,CГPëPjCрPIP°P»Pë C,,C-P»PiCГP°CГC,PëPj.

P— P±PsPeCз PSPëCГPsPe: PrPëP·CрCГC-CЦ, P°PSPsPjP°P»CHБPSP° CГPμC±P°, PiCГPsC,PμC—PSCрCГC-CЦ, PiPμPjP°C,CрCГC-CЦ.

P—P°PiP°P»CHБPSC- CГPsP·P»P°PrPë: CГPμP°PeC†C-C— Cr PjC-CГC†C-PIPIPμPrPμPSPSCЦ.

P—PjC-PSPë P· P±PsPeCз C€PeC-CГPë C- PiC-PrC€PeC-CГPSPsC— PeP»C-C,PePsPIPëPSPë: CГC-PrPePs PiPsPIC-PrPsPjP»CЦP»PsCГCЦ PiCГPs PiPsPsPrPëPSPsPeC- PIPëPiP°PrPePë PiPsCГC,CГPsPiPs C,,PμP±CГPëP»CHБPSPsPiPs PrPμCГPjP°C,PsP·Cр (CГPëPSPPrCГPsPj PŸPIC-C,P°) (P· C±P°CГC,PsC,PsCГ ≥ 0,01 % C- < 0,1 %).

PμPsPIC-PrPsPjP»CЦP»PsCГCЦ PiCГPs CГC-PrPeC-CГPSC- PIPëPiP°PrPePë C€PeC-CГPSPsPiPs PIP°CГPeCрP»C-C,Cр (0,001 %) Cr PiP°C†C-C”PSC,C-PI P· PsPSPePsP»PsPiC-C†PSPëPjPë P·P°C...PIPсCГCГPIP°PSPSCЦPjPë, CЦPeC- PsC,CГPëPjCрPIP°P»Pë C,,C-P»PiCГP°CГC,PëPj.

P»P°P±PsCГP°C,PsCГPSC- PiPsPeP°P·PSPëPePë: Cr PiP°C†C-C”PSC,C-PI, CЦPeC-PsC,CГPëPjCрPIP°P»Pë C,,C-P»PiCГP°CГC,PëPj PiC-CГP»CЦ C†PëC,PsC,PsPeCГPëC±PSPsC— C...C-PjC-PsC,PμCГP°PiC-C—, CГPiPsCГC,PμCГC-PiP°P»PsCГCЦ PsP±PsCГPsC,PSPμ PiC-PrPIPëC%oPμPSPSCЦ CГC-PIPSCЦ CГPμC±PsPIPсC— PePëCГP»PsC,Pë, P»CрP¶PSPsC— C,,PsCГC,,P°C,P°P·Pë, P»P°PeC,P°C,PrPμPiC-PrCГPsPiPμPSP°P·Pë P±PμP·PeP»C-PSC-C†PSPëC... PiCГPsCЦPIC-PI (P·P°P·PIPëC±P°PNë CГP»P°P±PeC- P°P±Ps PiPsPjC-CГPSC-).

PŸPμCГPjC-PS PiCГPëPrP°C,PSPsCГC,C-. 2 CГPsPePë.

PJPjPsPIPë P·P±PμCḡC-PiP°PSPSCḡ.

P—P±PμCḡC-PiP°C, Pë PI PsCḡPëPiC-PSP°P»CHḡPSC-PMḡ CíPïP°PePsPIC†C- PrP»Cḡ
P·P°C...PëCḡC, Cí PIC-Pr PrC-C— CḡPIC-C, P»P° PiCḡPë C, PμPjPiPμCḡP°C, CíCḡC- PIC-Pr

2 PrPs 8 °Pÿ. **P—P±PμCḡC-PiP°C, Pë PI**

PSPμPrPsCḡC, CíPïPSPsPjCḡ PrP»Cḡ

PrC-C, PμPMḡ PjC-CḡC†C-.

PJPïP°PePsPIPëP°.

PrPs 1 PjP» (30 PjP»PS PḡPh) (0,3 PjPi) P°P±Ps PiPs 1,6 PjP» (48 PjP»PS PḡPh) (0,48 PjPi) Cí
PiPsPiPμCḡPμPrPSCḡPs PSP°PiPsPIPSPμPSPsPjCḡ CḡPiCḡPëC†C-. PrPs 1
PiPsPiPμCḡPμPrPSCḡPs PSP°PiPsPIPSPμPSPsPjCḡ CḡPiCḡPëC†Cḡ Cí P±P»C-CḡC, PμCḡC- P·
PiP»C-PIPePë PrP'Pḡ. PrPs 1 P±P»C-CḡC, PμCḡCḡ Cí PiP°C†C†C- P· PeP°CḡC, PsPSCḡ.

PḡP°C, PμPiPsCḡC-Cḡ PIC-PrPiCḡCḡPëCḡ. P—P° CḡPμC†PμPiC, PsPj.

P'PëCḡPsP±PSPëPe. PÿPhP' B«PαP— B«PÿPÿPhP''PhB», PJPëCḡP°C—PSP°.

**PḡC-CḡC†PμP·PSP°C...PsPrPḡPμPSPSCḡ PIPëCḡPsP±PSPëPeP° C, P° PMḡPsPiPs
P°PrCḡPμCḡP° PjC-CḡC†Cḡ PiCḡPsPIP°PrPḡPμPSPSCḡ PrC-CḡP»CHḡPSPsCḡC, C-.**

PJPëCḡP°C—PSP°, 09100, PḡPëC—PICḡCHḡPeP° PsP±P», Pj. P'C-P»P° P|PμCḡPePIP°, PICḡP». PḡPëC—PICḡCHḡPeP°, 37.