

PαP°CTHPjP°PePsP»PsPiC-C‡PSC- PIP»P°CfC,PëPIPsCfC,C-.

PαP°CTHPjP°PePsPrPëPSP°PjC-PeP°.

PŸPμCTHC,CTHP°P»C-PS C” PiPsC,CrP¶PSPëPj C,P° CÍPiPμC†PëC,,C-C‡PSPëPj
C-PSPiC-P±C-C,PSCHPsPj PSPμPNëCTHPsPSP°P»CHbPSPsPiPs P·P°C...PsPiP»PμPSPSCl
CÍPμCTHPsC,PsPSC-PSCr (5-PkPŸ) *in vitro*, ClPePμ PI PsCTHPiP°PSC-P·PjC- C,PIP°CTHPëPS
PiCTHPëP·PIPsPrPëC,CH PrPs PiPsC,PμPSC†C-CTHPiP°PSPSCl PμC,,PμPeC,C-PI 5-PkPŸ.
PŸPμCTHC,CTHP°P»C-PS PjP°C” P»PëCëPμ PrCrP¶Pμ CÍP»P°P±PePëPNë PIPiP»PëPI PSP°
PiCTHPsC†PμCÍPë P·PIPsCTHPsC,PSPsPiPs PSPμPNëCTHPsPSP°P»CHbPSPsPiPs
P·P°C...PsPiP»PμPSPSCl PSPsCTHP°PrCTHPμPSP°P»C-PSCr C,P° PrPsPiP°PjC-PSCr. Pj
PeP»C-PSC-C‡PSPëC... PrPsP·P°C... CÍPμCTHC,CTHP°P»C-PS P±P»PsPeCfC”
P·P°C...PsPiP»PμPSPSCl CÍPμCTHPsC,PsPSC-PSCr Cr C,CTHPsPjP±PsC†PëC,P°C... P»CTHPëPSPë.
PμCTHPμPiP°CTHP°C, PSPμ PiCTHPsClPIP»ClC” CÍC,PëPjCrP»CTHC‡PsC—,
CÍPμPrP°C,PëPIPsC—, P°PSC,PëC...PsP»C-PSPμCTHPiC-C‡PSPsC— P°P±Ps
PeP°CTHPrC-PsC,PsPeCÍPëC‡PSPsC— PrC-C— PI PμPeCÍPiPμCTHPëPjPμPSC,P°C... PSP°
C,PIP°CTHPëPSP°C.... Pj PePsPSC,CTHPsP»CHbPsPIP°PSPëC... PrPsCÍP»C-PrP¶PμPSPSClC... P·
CfC‡P°CfC,CT P·PrPsCTHPsPiPëC... PrPsP±CTHPsPiPsP»CHC†C-PI CÍPμCTHC,CTHP°P»C-PS PSPμ
PiCTHPsC‡PIP»ClPI CÍPμPrP°C,PëPIPsC— PrC-C— C,P° PSPμ PIPiP»PëPIP°PI PSP°
PiCÍPëC...PsPjPsC,PsCTHPSC- C,,CrPSPeC†C-C—. P—PiC-PrPSPs P· PIP»P°CfC,PëPIPëPj PNëPsPjCr
CÍPμP»PμPeC,PëPIPsPëPj C-PSPiC-P±CfPIP°PSPSClPj P·PIPsCTHPsC,PSPsPiPs
P·P°C...PsPiP»PμPSPSCl 5-PkPŸ, CÍPμCTHC,CTHP°P»C-PS PSPμ CÍC,PëPjCrP»CTHC”
PeP°C,PμC...PsP»P°PjC-PSPμCTHPiC-C‡PSCr P°PeC,PëPIPsC-CÍC,CH. P—P°CfC-P± PSPμ PjP°C”
P°C,,C-PSPSPsCfC,C- PrPs PjCrCÍPeP°CTHPëPSPsPiPëC... (C...PsP»C-PSPμCTHPiC-C‡PSPëC...),
CÍPμCTHPsC,PsPSC-PSPμCTHPiC-C‡PSPëC..., PrPsC,,P°PjC-PSPμCTHPiC-C‡PSPëC...,
P°PrCTHPμPSPμCTHPiC-C‡PSPëC..., PiC-CÍC,P°PjC-PSPμCTHPiC-C‡PSPëC..., P”PħPħPħ P°P±Ps
P±PμPSP·PsPrC-P°P·PμPiC-PSPsPiPëC... CTHPμC†PμPiC,PsCTHC-PI. PŸCTHPëPIP°P»Pμ
P·P°CfC,PsCÍCrPIP°PSPSCl CÍPμCTHC,CTHP°P»C-PSCr Cr C,PIP°CTHPëPS PiCTHPëP·PIPsPrPëP»Ps
PrPs P·PjPμPSCëPμPSPSCl P°PeC,PëPIPsCfC,C- PSPsCTHP°PrCTHPμPSP°P»C-PSPsPiPëC...
CTHPμC†PμPiC,PsCTHC-PI PjPsP·PeCf, C%Ps CÍPiPsCfC,PμCTHC-PiP°C”C,CHbCfCl C- PiCTHPë
P·P°CfC,PsCÍCrPIP°PSPSC- C-PSCëPëC... PμC,,PμPeC,PëPIPsPëC... Cr PeP»C-PSC-C‡PSC-PNë
PiCTHP°PeC,PëC†C- P°PSC,PëPrPμPiCTHPμCÍP°PSC,C-PI C,P° P°PSC,PëPsP±CÍPμCÍPëPIPsPëC...
P·P°CfCpsP±C-PI.

PŸPμCTHC,CTHP°P»C-PS PSPμ CÍPiCTHPsC‡PëPSClC” CTHPsP·PiPëC,PeCf
PjPμPrPëPeP°PjPμPSC,PsP·PSPsPiPs P·P»PsPIP¶PëPIP°PSPSCl. Pj PiP»P°C†PμP±Ps-
PePsPSC,CTHPsP»CHbPsPIP°PSPsPjCr, PiPsPrPIC-PNëPSPsPjCr CÍP»C-PiPsPjCr
CTHP°PSPrPsPjC-P·PsPIP°PSPsPjCr PrPsCÍP»C-PrP¶PμPSPSC- PiPsCTHC-PIPsC‡P»CHbPSPsPiPs
PiPsC,PμPSC†C-P°P»Cr P·P»PsPIP¶PëPIP°PSPSCl CÍPμCTHC,CTHP°P»C-PSPsPj,
P°P»PiCTHP°P·PsP»P°PjPsPj C,P° d-P°PjC,,PμC,P°PjC-PSPsPj Cr P»CTHPrPμPNë
CÍPμCTHC,CTHP°P»C-PS PSPμ CÍPiCTHPëC‡PëPSPëPI PiPsP·PëC,PëPIPsPëC...
CÍCfP±Bħ™ C”PeC,PëPIPsPëC... PμC,,PμPeC,C-PI, C%Ps CÍPIC-PrC‡PëP»Pë P± PiCTHPs
PiPsC,PμPSC†C-P°P» PrPs P·P»PsPIP¶PëPIP°PSPSCl. PkP°PIPiP°PePë, CrC‡P°CfPSPëPePë
PrPsCÍP»C-PrP¶PμPSPSCl, ClPeC- PiCTHPëPNëPjP°P»Pë ClPe P°P»PiCTHP°P·PsP»P°Pj, C,P°Pe C-
d-P°PjC,,PμC,P°PjC-PS PiPsCTHC-PIPsC‡PSPs P· PiP°C†C-C”PSC,P°PjPë, ClPeC-
P·P°CfC,PsCÍPsPICfPIP°P»Pë PiP»P°C†PμP±Ps, PjP°P»Pë CÍC,P°C,PëCfC,PëC‡PSPs
P·PSP°C‡CfC%Ps PiPëC%oC- PiPsPeP°P·PSPëPePë CÍC...PëP»CHbPSPsCfC,C- PrPs
P·P»PsPIP¶PëPIP°PSPSCl, PμPNëC,,PsCTHC-C— C,P° PiPsC,PμPSC†C-PNëPSPsC—
PjPμPrPëPeP°PjPμPSC,PsP·PSPsC— P·P°P»PμP¶PSPsCfC,C-. PŸPμCTHC,CTHP°P»C-PS PSPμ
CÍPiCTHPëC‡PëPSClC” CÍC,PëPjCrP»CTHC‡PsPiPs PμC,,PμPeC,Cr P°P±Ps PIC-PrC‡CfC,C,Cl

C, C₂H₂P₂PIPsP₂SPsC₂C, C-, C...P^oC₂H₂P^oPeC, P₂CH₂PSP₂PeC... PrP»C₂ d-P^oPjC,, P₂CH₂P^oPjC-PSC₂C,
P^oP₂Ps C₂P₂PrP^oC, P₂PIPsP₂SC— PrC-C— C, P^o PiC₂P₂PeC...PsPjPsC, PsC₂H₂PSP₂PeC...
PiPsC₂H₂C₂C₂PeP₂PSCH₂, C...P^oC₂H₂P^oPeC, P₂CH₂PSP₂PeC... PrP»C₂ P^oP»PiC₂H₂P^oP·PsP»P^oPjC₂.
P₂Y₂CH₂C, C₂H₂P^oP»C-PS P₂SP₂ PrC-C" PI C₂PIPePsC₂C, C- PiPsP·P₂PeC, P₂PIPsP₂SiPs C₂C, P₂PIPsP₂PrP»C₂C₂
C₂ P^oPjC-P^oPeP^oPe PIP₂PrC₂ C₂H₂P₂PrC₂C₂, PIP₂PrC₂H₂P₂C₂P₂PeC₂C₂PIPsP₂PeC...
C₂P^oPjPsC₂C₂C-PN₂PSPs PiC₂H₂P₂PN₂PjP^oC, P₂PePsPeP^oC—PS, C₂PIPe C- P₂SP₂ C"
P·P^oPjC-C₂PSP₂PePsPj C₂H₂PsP·PiC-P·PSP^oPIPsP»CH₂PSPsPiPs C₂C, P₂PIPsP₂PrP»C₂C₂ C%₂PsPrPs d-
P^oPjC,, P₂CH₂P^oPjC-PSC₂C P^oP₂Ps C,, P₂PIPsP₂PrP»C₂C-C, P^oP»C₂ C₂ PjP^oPeP^oPe-C₂H₂P₂PrC₂C₂.

Р₂PrP»C-PSC-C₂PSP^o P₂CH₂, P₂PIPsP₂SC-C₂C, CH₂ C, P^o P₂PrP·PiP₂CH₂PSC-C₂C, CH₂

P₂PrP»P₂PeP₂PePN₂ PrP₂PrP₂CH₂P₂C₂P₂PIPsP₂PePN₂ C₂H₂PsP·P»P^oPr

P₂CH₂PsPIPsPrP₂PeP»PsC₂C₂ PrPsC₂P»C-PrP₂PIPsP₂SC₂ P· C₂C₂P^oC₂C, CH₂
P^oPjP₂C₂PrP»P^oC, PsC₂H₂PSP₂PeC... PiP^oC₂C-C" PSC, C-PI P· PrP₂PrP₂CH₂P₂C₂C-C" CH₂, C₂ C₂PIPeP₂PeC...
PIC-PrP·PSP^oC₂P^oP»P^oC₂C₂ PIC-PrPiPsPIC-PrCH₂ PSP^o C, P₂CH₂P^oPiC-C₂ PrPs
P·P^oPIPsP₂CH₂C₂PeP₂PS₂SC₂ PiPsC₂P^oC, PePsPIPsC— 8-C, P₂PIPsP₂PrP₂PS₂SC— PIC-PrP₂PeC₂H₂PeC, PsC—
C,, P^oP·P₂ C, P₂CH₂P^oPiC-C— C₂P₂CH₂C, C₂H₂P^oP»C-PSPsPj C₂ PrPsP·C- 50-200 PjPi/PrPsP₂C₂. P₂C-
PiP^oC₂C-C" PSC, P₂ (n=295) P₂C₂PrP»P₂ C₂H₂P^oSP₂PrPsPjC-P·PsPIPsP₂SC- C₂ PiC₂H₂C₂PiP₂ P^oP₂Ps
PrP»C₂ PiC₂H₂PsPrPsPIPsP₂PS₂SC₂ PiC₂H₂P₂PN₂PsPjC₂ C₂P₂CH₂C, C₂H₂P^oP»C-PSC₂C₂ C₂ PrPsP·C-
50-200 PjPi/PrPsP₂C₂, P^oP₂Ps PrP»C₂ PiC₂H₂P₂PN₂PsPjC₂ PiP»P^oC₂P₂PrP₂Ps PiC₂H₂PsC, C₂PIPsPj 44
C, P₂PIPsP₂SC-PI PIC-PrPiPsPIC-PrPSPs PrPs PiPsPrPIC-PN₂PSPsPiPs C₂P»C-PiPsPiPs
PrPsC₂P»C-PrP₂PIPsP₂SC₂. P₂SP^oC₂C, PsC, P^o C₂H₂P₂PrP₂PeP₂PIPsPIC-PI C₂ PiC₂H₂C₂PiC-
PiP^oC₂C-C" PSC, C-PI, C₂PIPeC- PiC₂H₂P₂PN₂PjP^oP»P₂ C₂P₂CH₂C, C₂H₂P^oP»C-PS, P₂C₂PrP»P^o
C₂C, P^oC, P₂PeC₂C, P₂PeC₂PSPs P·PSP^oC₂C₂Ps P₂PeP₂PIPsP₂SC₂ PiPsC₂H₂C-PIPsC₂PIPsP₂ P·
PiP^oC₂C-C" PSC, P^oPjP₂, C₂PIPeC- PiC₂H₂P₂PN₂PjP^oP»P₂ PiP»P^oC₂P₂PrP₂Ps. P₂Y₂CH₂P₂PrP₂SC₂ PrPsP·P^o
PI C₂C₂P^oC₂PSP₂PeC-PI, C₂PIPeC- P·P^oPIPsP₂CH₂C₂PeP₂»P₂ C₂C₂P^oC₂C, CH₂ C₂
PrPsC₂P»C-PrP₂PIPsP₂SC-, C₂C, P^oPSPsPIPsP»P^o 70 PjPi/PrPsP₂C₂. P^oC-PrC₂PsC, PsPe
PiP^oC₂C-C" PSC, C-PI, C₂PIPeC- PIC-PrPiPsPIC-P»P₂ PSP^o C, P₂CH₂P^oPiC-C₂ (C%₂Ps
PIPsP·PSP^oC₂P^oP»P₂PeC₂C₂ C₂PIPe PiP^oC₂C-C" PSC, P₂, PI C₂PIPeP₂PeC... PSP₂
C₂PiPsC₂C₂C, P₂CH₂C-PiP^oPIPsC₂C₂ C₂H₂P₂PrP₂PeP₂PI) C₂ PiC₂H₂C₂PiP^oC... PiC₂H₂P₂PN₂PsPjC₂
C₂P₂CH₂C, C₂H₂P^oP»C-PSC₂C- PiP»P^oC₂P₂PrP₂Ps C₂C, P^oPSPsPIPsP₂PI 83,4 % C- 60,8 %
PIC-PrPiPsPIC-PrPSPs.

P₂PsC₂C, C, C₂H₂P^oPIPsP^oC, P₂PeC₂PSP₂PePN₂ C₂C, C₂H₂P₂PrP₂PSPIPsP₂PePN₂ C₂H₂PsP·P»P^oPr (P₂Y₂Y₂)

P₂H₂P₂PrPSP^oPSC- PrP^oPSC- P·P^oPiP^oP»CH₂PSPsC— PeC-P»CH₂PePsC₂C, C-
PiP^oC₂C-C" PSC, C-PI P· P₂Y₂Y₂, C₂PIPeC- P₂C₂H₂P^oP»P₂ C₂C₂P^oC₂C, CH₂ C₂ 3
PrPsC₂P»C-PrP₂PIPsP₂SC₂C..., C₂PIPsPIC-PrC₂P^oC, CH₂ PiC₂H₂Ps P₂PeP₂PIPsP₂PePN₂ PIC-PrC₂PsC, PsPe
PIC-PrPiPsPIC-PrC- PSP^o C, P₂CH₂P^oPiC-C₂ C₂P₂CH₂P₂Pr C₂PsP»PsPIC-PeC-PI
PiPsC₂H₂C-PIPsC₂PIPsP₂ P· P₂PIPsP₂PeP^oPjP₂. Pj PrPIPsC... PeP»C-PSC-C₂PSP₂PeC...
PrPsC₂P»C-PrP₂PIPsP₂SC₂C... C-P· P·P^oPiP^oP»CH₂PSPsC₂ PiPsPiC₂P»C₂PIPsC-C" CH₂ P·
PiPsP·P₂PeC, P₂PIPsP₂PrP₂Pe C₂H₂P₂PrC₂P»CH₂C, P^oC, P^oPjP₂ PIC-PrC₂PsC, PsPe PiP^oC₂C-C" PSC, C-PI,
C₂PIPeC- PIC-PrPiPsPIC-P»P₂ PSP^o C, P₂CH₂P^oPiC-C₂, C₂P₂CH₂P₂Pr P₂PIPsP₂Pe C-
C₂PsP»PsPIC-PeC-PI C₂ PiC₂H₂C₂PiP^oC... PiP^oC₂C-C" PSC, C-PI, C₂PIPeC- PiC₂H₂P₂PN₂PjP^oP»P₂
C₂P₂CH₂C, C₂H₂P^oP»C-PS, P₂C₂PrP₂ PiPsPrC-P₂PSP₂Pr PiPsC₂H₂C-PIPsC₂PIPsP₂ P· PiP»P^oC₂P₂PrP₂Ps
(P₂PIPsP₂PeP₂: 57,2 % PiPsC₂H₂C-PIPsC₂PIPsP₂ P· 34,5 %; C₂PsP»PsPIC-PeP₂: 53,9 %
PiPsC₂H₂C-PIPsC₂PIPsP₂ P· 38,2 %). P₂CH₂P₂»CH₂PeC-C₂C, CH₂ C₂PsP»PsPIC-PeC-PI C- P₂PIPsP₂Pe
C₂P₂CH₂P₂Pr PiP^oC₂C-C" PSC, C-PI P·P^oPiP^oP»CH₂PSPsC— PsP₂PrPSP^oPSPsC—
PeC-P»CH₂PePsC₂C, C- PrPsC₂P»C-PrP₂PIPsP₂SC₂ C₂C, P^oPSPsPIPsP»P^o 184 C- 430
PIC-PrPiPsPIC-PrPSPs, PiC₂H₂Pe C₂CH₂PsPjC₂ C₂H₂P₂PrC₂P»CH₂C, P^oC, P₂ C₂ P₂PIPsP₂Pe P₂C₂PrP»P₂
P₂C-P»CH₂C₂ PiPsC₂C, C-PN₂PSP₂PrP₂Pe, P^o C₂ C₂PsP»PsPIC-PeC-PI PSP^o PiPsC₂P^oC, PePsPIPsPjC₂

P"°PSC- C%oPsPrPs PrPsPIPiPsCfC,CfPsPePsPIPsC— P±PμP·PiPμPePë C,P°
PμC,,PμPeC,PëPIPSPsCfC,C- PiCfPμPiP°CfP°C,Cr Cr C+C-PMë PiPsPiCfP»CfCfC-C—
PiP°CfC-C"°PSC,C-PI PrPëC,CfCfPsPiPs PIC-PeCr PIC-PrCfCfC,PSC-. P"°PSC- PiCfPs
P·P°CfC,PsCfCfPIP°PSPSCf CfPμCfC,CfP°P»C-PSCr PrC-C,CfPj PIC-PePsPj PrPs 6
CfPsPeC-PI PIC-PrCfCfC,PSC-.

PαP°CfPjP°PePsPeC-PSPμC,PëPeP°.

PfP±CfPsCfP±CfC-Cf

PαP°CfPjP°PePsPeC-PSPμC,PëPeP° CfPμCfC,CfP°P»C-PSCr Cr PrC-P°PiP°P·PsPSC- PrPsP·
PIC-Pr 50 PrPs 200 PjPi C" PrPsP·PsP·P°P»PμP¶PSPsCf. PμCfPsC,CfPiPsPj 14-PrPμPSPSPsPiPs
PiCfPëPNePsPjCr CfPμCfC,CfP°P»C-PSCr C-P· PrPsP·CfPIP°PSPSCfPj 50-200 PjPi
(PiPμCfPsCfP°P»CfPSPs, 1 CfP°P· PSP° PrPsP±Cr) Cr P»CfPrPμPNe, PiC-Pe
PePsPSCfPμPSC,CfP°CfC-C— CfPμCfC,CfP°P»C-PSCr Cr PiP»P°P·PjC- PeCfPsPIC-
PrPsCfCfPiP°C"C,CfCfCf C±PμCfPμP· 4,5-8,4 PiPsPrPëPSPë PiC-CfP»Cf
C%oPsPrPμPSPSPsPiPs PiCfPëPNePsPjCr PiCfPμPiP°CfP°C,Cr. P±P¶P° CfCfC,C,C"PIPs PSPμ
P·PjC-PSCfC" P±C-PsPrPsCfC,CfPiPSC-CfC,Cf CfPμCfC,CfP°P»C-PSCr Cr
C,P°P±P»PμC,PeP°C....

P PsP·PiPsPrC-P»

PμCfPëP±P»PëP·PSPs 98 % CfPëCfPeCfP»CfCfCfPsPiPs CfPμCfC,CfP°P»C-PSCr
P·PiBf™ CfP·CrC"C,CfCfCf P· P±C-P»PeP°PjPë PiP»P°P·PjPë PeCfPsPIC-.

P'C-PsC,CfP°PSCfC,,PsCfPjP°CfC-Cf

PfPμCfC,CfP°P»C-PS P·P°P·PSP°C" C-PSC,PμPSCfPëPIPSPsPiPs PiCfPμCfPëCfC,PμPjPSPsPiPs
PjPμC,P°P±PsP»C-P·PjCr (B«PμC,,PμPeC, PiPμCfC€PsPiPs PiCfPsC...PsPrP¶PμPSPSCfB») Cr
PiPμCfC-PSCfC-.

P'P°P·CfCfCfPëCfCf PSP° PrP°PSPëC... PeP»C-PSC-CfPSPëC... PrPsCfP»C-PrP¶PμPSCf C,P°
PrPsCfP»C-PrP¶PμPSCf *in vitro*, PjPsP¶PSP° P·CfPsP±PëC,Pë PiPëCfPSPsPIPsPe, C%oPs
CfPμCfC,CfP°P»C-PS PjPμC,P°P±PsP»C-P·CrC"C,CfCfCf P±P°PiP°C,CfPjP°
C€P»CfC...P°PjPë, Cr C,PsPjCr C±PëCfP»C- P·P° CrC±P°CfC,Cf C,,PμCfPjPμPSC,C-PI CYP3A4,
CYP2C19 C,P° CYP2B6 (PrPëPI. CfPsP·PrC-P» B«P'P·P°C"PjPsPrC-Cf P· C-PSC€PëPjPë
P»C-PeP°CfCfCfPePëPjPë P·P°CfPsP±P°PjPë C,P° C-PSC€C- PiPëPrPë PiP·P°C"PjPsPrC-PMëB»).
PfPμCfC,CfP°P»C-PS C,P° PMëPsPiPs PsCfPSPsPIPSPëPNe PjPμC,P°P±PsP»C-C,
PrPμP·PjPμC,PëP»CfPμCfC,CfP°P»C-PS C,P°PePsP¶ C" CfCfP±CfC,CfP°C,P°PjPë P -
PiP»C-PePsPiCfPsC,PμC—PSCr PI CrPjPsPIP°C... *in vitro*.

P·P»C-PjC-PSP°CfC-Cf

PfPμCfPμPrPSC-PMë PiPμCfC-PsPr PSP°PiC-PIPIPëPIPμPrPμPSPSCf CfPμCfC,CfP°P»C-PSCr
CfC,P°PSPsPIPëC,Cf PiCfPëP±P»PëP·PSPs 26 PiPsPrPëPS (Cr PrC-P°PiP°P·PsPSC- PIC-Pr 22
PrPs 36 PiPsPrPëPS). P'C-PrPiPsPIC-PrPSPs PrPs C,PμCfPjC-PSP°P»CfPSPsPiPs
PiPμCfC-PsPrCr PSP°PiC-PIPIPëPIPμPrPμPSPSCf CfPiPsCfC,PμCfC-PiP°C"C,CfCfCf
PeCfPjCrP»CfCfC-Cf PiCfPμPiP°CfP°C,Cr (P·C- P·P±C-P»CfC€PμPSPSCfPj PMëPsPiPs
CfC-PIPSCf PiCfPëP±P»PëP·PSPs PiPrPIC-CfC-) PiCfPë PrPsCfCfPiPSPμPSPSC-
CfC-PIPSPsPIP°P¶PSPëC... PePsPSCfPμPSC,CfP°CfC-PMë, CfPeC-

PμPsCḡCáC€PμPSPSCII C,,CáPSPeC†C-PMḡ PSPëCḡPsPe

PJ PïP°C†C-C''PSC,C-PI C-P· PïPsCḡC†C€PμPSPSCII Pj C,,C†PSPeC†C-C— PSPëCḡPsPe
PïPsPjC-CḡPSPsPiPs P°P±Ps C,CII P¶PεPsPiPs C†C,C†PïPμPSCII PSPμ
PIC-PrP·PSP°C†P°P»PsC†CII P·PSP°C†C°PsC— PeC†PjC†P»CII C†C-C—
C†PμCḡC,CḡP°P»C-PSC†.

PαP°CḡPjP°PePsPiPμPSPsPjC-PeP°

P' PsC†C-P± P· PïPsPIC-P»CHḡPSPëPj PjPμC,P°P±PsP»C-P·PjPsPj CYP2C19 CḡC-PIPSC-
C†PμCḡC,CḡP°P»C-PSC† PI PïP»P°P·PjC- PeCḡPsPIC- P±C†P»Pë PïCḡPëP±P»PëP·PSPs PSP° 50 %
PIPëC°C- PïPsCḡC-PIPSCII PSPs P· PsC†PsP±P°PjPë P· C€PIPëPrPePëPj
PjPμC,P°P±PsP»C-P·PjPsPj CYP2C19. PḡP»C-PSC-C†PSPμ P·PSP°C†PμPSPSCII C†CHḡPsPiPs
CII PIPëC°P° PSPμ P·Bḡ™ CII C†PsPIP°PSPμ, C,PsPjC† C,PëC,CḡC†PIP°PSPSCII PrPsP·Pë
PïPsC,CḡC-P±PSPμ, P·P°P»PμP¶PSPs PIC-Pr PeP»C-PSC-C†PSPsC— PIC-PrPïPsPIC-PrC-
PïP°C†C-C''PSC,P°.

PḡP»C-PSC-C†PSC- C...P°CḡP°PeC,PμCḡPëC†C,PëPePë.

PμPsPeP°P·P°PSPSCII.

PŸPμCḡC,CḡP°P»C-PS PïPsPeP°P·P°PSPëPMḡ PrP»CII P»C-PeC†PIP°PSPSCII
PSP°C†C,C†PïPSPëC... CḡPsP·P»P°PrC-PI :

- P'PμP»PëPeC- PrPμPïCḡPμC†PëPIPSC- PμPïC-P·PsPrPë. P—P°PïPsP±C-PiP°PSPSCII
CḡPμC†PëPrPëPIC† PIPμP»PëPePëC... PrPμPïCḡPμC†PëPIPSPëC... PμPïC-P·PsPrC-PI.
- PμP°PSC-C†PSC- CḡPsP·P»P°PrPë P· PSP°CII PIPSC-C†C,Cḡ P°P±Ps
PIC-PrC†C†C,PSC-C†C,Cḡ P°PiPsCḡP°C,,PsP±C-C—.
- PḡP±C†PμC†PëPIPSPs-PePsPjPïC†P»CHḡC†PëPIPSPëPMḡ CḡPsP·P»P°Pr (PḡPḡP) C†
PrPsCḡPsC†P»PëC... C,P° PrC-C,PμPMḡ PIC-PePsPj 6-17 CḡPsPeC-PI.
- PŸPsC†C-P°P»CHḡPSPëPMḡ C,CḡPëPIP¶PSPëPMḡ CḡPsP·P»P°Pr.
- PμPsC†C,C,CḡP°PIPjP°C,PëC†PSPëPMḡ C†C,CḡPμC†PsPIPëPMḡ CḡPsP·P»P°Pr (PμPŸPŸP).

PμCḡPsC,PëPïPsPeP°P·P°PSPSCII.

PμC-PrPIPëC°PμPSP° C†C†C,P»PëPIC-C†C,Cḡ PrPs PrC-CḡC†PsC— CḡPμC†PsPIPëPSPë P°P±Ps
PrPs P±C†PrCḡ-CII PePsC— P· PrPsPiPsPjC-P¶PSPëC... CḡPμC†PsPIPëPS.

PμCḡPsC,PëPïPsPeP°P·P°PSPμ P·P°C†C,PsC†C†PIP°PSPSCII C†PμCḡC,CḡP°P»C-PSC† CḡP°P·PsPj
P· C-PSPiC-P±C-C,PsCḡP°PjPë PjPsPSPsP°PjC-PSPsPsPeC†PëPrP°P·Pë (PḡPḡPḡ)
PSPμP·PIPSCḡPsC,PSPsC— PrC-C— C† P·PIBḡ™ CII P·PeC† P· CḡPëP·PëPePsPj CḡPsP·PIPëC,PeC†
C†PμCḡPsC,PsPSC-PSPsPiPs C†PëPSPrCḡPsPjC† P· PïCḡPsCII PIP°PjPë C,P°PePëC...
C†PëPjPïC,PsPjC-PI CII Pe P·P±C†PrP¶PμPSPSCII, C,CḡPμPjPsCḡ C,P° PiC-PïPμCḡC,PμCḡPjC-CII.
P PsP·PïPsC†PëPSP°C,Pë C,PμCḡP°PïC-Cḡ C†PμCḡC,CḡP°P»C-PSPsPj PSPμ PjPsP¶PSP°
C°PsPSP°PMḡPjPμPSC€Pμ PïCḡPsC,CII PiPsPj 14 PrPSC-PI PïC-C†P»CII PïCḡPëPïPëPSPμPSPSCII
PeC†CḡC†C† P»C-PeC†PIP°PSPSCII C-PSPiC-P±C-C,PsCḡPsPj PḡPḡPḡ

PSPμP·PIPsCḡPsC,PSPsC— PrC—C—. P—P°CÍC,PscÍCfPIP°PSPSCḡ CÍPμCḡC,CḡP°P»C—PSCf CÍP»C—Pr PíCḡPëPíPëPSPëC,Pë C%PsPSP°PNëPjPμPSCëPμ P·P° 7 PrPSC—PI PrPs PíPsC±P°C,PeCf C,PμCḡP°PíC—C— C—PSPiC—P±C—C,PscḡPsPj PḡPḡPḡ PSPμP·PIPsCḡPsC,PSPsC— PrC—C—. PḡCḡPsC,PëPíPsPeP°P·P°PSPμ PsPrPSPsC±P°CÍPSPμ P·P°CÍC,PscÍCfPIP°PSPSCḡ CÍPμCḡC,CḡP°P»C—PSCf C,P° PíC—PjPsP·PëPrCf (PrPëPI. CḡPsP·PrC—P» B«P·P·P°C”PjPsPrC—Cḡ P·C—PSCëPëPjPë P»C—PeP°CḡCÍCḡPëPëPjPë P·P°CÍPsP±P°PjPë C,P° C—PSCëC— PIPëPrPë PIP·P°C”PjPsPrC—PNëB»).

P·P·P°C”PjPsPrC—Cḡ P·C—PSCëPëPjPë P»C—PeP°CḡCÍCḡPëPëPjPë P·P°CÍPsP±P°PjPë C,P° C—PSCëC— PIPëPrPë PIP·P°C”PjPsPrC—PNë.

PḡCḡPsC,PëPíPsPeP°P·P°PSC—

P†PSPiC—P±C—C,PscḡPë PjPsPSPsP°PjC—PSPsPeCÍPëPrP°P·Pë

PḡPḡPḡP† PSPμP·PIPsCḡPsC,PSPsC— PrC—C— (PSP°PíCḡPëPeP»P°Pr CÍPμP»PμPiC—P»C—PS)

PḡCḡPsC,PëPíPsPeP°P·P°PSPμ P·P°CÍC,PscÍCfPIP°PSPSCḡ CÍPμCḡC,CḡP°P»C—PSCf CḡP°P·PsPj P·PḡPḡPḡP† PSPμP·PIPsCḡPsC,PSPsC— PrC—C—, C,P°PePëPjPë CḡPe CÍPμP»PμPiC—P»C—PS. PŸPμCḡC,CḡP°P»C—PS PSPμ PjPsP¶PSP° PíCḡPëPíPëPSPμPSPSCḡ PeCfCḡCÍCf PíCḡPsC,CḡPiPsPj 14 PrPSC—PI PíC—CÍP»Cḡ PíCḡPëPíPëPSPμPSPSCḡ PeCfCḡCÍCf P»C—PeCfPIP°PSPSCḡ PḡPḡPḡP† PSPμP·PIPsCḡPsC,PSPsC— PrC—C—. P—P°CÍC,PscÍCfPIP°PSPSCḡ CÍPμCḡC,CḡP°P»C—PSCf CÍP»C—Pr PíCḡPëPíPëPSPëC,Pë C%PsPSP°PNëPjPμPSCëPμ P·P° 7 PrPSC—PI PrPs PíPsC±P°C,PeCf C,PμCḡP°PíC—C— PḡPḡPḡP† PSPμP·PIPsCḡPsC,PSPsC— PrC—C— (PrPëPI. CḡPsP·PrC—P» B«PḡCḡPsC,PëPíPsPeP°P·P°PSPSCḡB»).

PŸPμP»PμPeC,PëPIPSPëPNë C—PSPiC—P±C—C,Pscḡ P·PIPsCḡPsC,PSPsC— PrC—C— PḡPḡPḡPḡ (PjPsPeP»PsP±PμPjC—Pr)

PJ P·PíBḡ™ CḡP·PeCf P·CḡPëP·PëPePsPj CḡPsP·PIPëC,PeCf CÍPμCḡPsC,PscPSC—PSPsPIPsPíPs CÍPëPSPPrCḡPsPjCf PSPμ CÍP»C—Pr P·P°CÍC,PscÍPsPICfPIP°C,Pë CÍPμCḡC,CḡP°P»C—PS Cí PePsPjP±C—PSP°C†C—C— P·CÍPμP»PμPeC,PëPIPSPëPjPë PḡPḡPḡP† P·PIPsCḡPsC,PSPsC— PrC—C—, C,P°PePëPjPë CḡPe PjPsPeP»PsP±PμPjC—Pr. PḡC—CÍP»Cḡ PIC—PrPjC—PSPë C—PSPiC—P±C—C,PscḡC—PI PḡPḡPḡ P·PIPsCḡPsC,PSPsC— PrC—C— PíPμCḡC—PsPr PrPs PíPsC±P°C,PeCf C,PμCḡP°PíC—C— CÍPμCḡC,CḡP°P»C—PSPsPj PjPsP¶Pμ P±CfC,Pë PePsCḡPsC,CëPëPj P·P° 14 PrPSC—PI. P PμPePsPjPμPSPPrCf”C,CḡCÍCḡ PíCḡPëPíPëPSPëC,Pë P·P°CÍC,PscÍCfPIP°PSPSCḡ CÍPμCḡC,CḡP°P»C—PSCf C%PsPSP°PNëPjPμPSCëPμ P·P° 7 PrPSC—PI PrPs PíPsC±P°C,PeCf C,PμCḡP°PíC—C— PḡPḡPḡ P·PIPsCḡPsC,PSPsC— PrC—C— (PrPëPI. CḡPsP·PrC—P» B«PḡCḡPsC,PëPíPsPeP°P·P°PSPSCḡB»).

PkPμCÍPμP»PμPeC,PëPIPSC— C—PSPiC—P±C—C,PscḡPë PḡPḡPḡ P·PIPsCḡPsC,PSPsC— PrC—C— (P»C—PSPμP·PsP»C—Pr)

PḡPSC,PëP±C—PsC,PëPe P»C—PSPμP·PsP»C—Pr C” CÍP»P°P±PePëPj PSPμCÍPμP»PμPeC,PëPIPSPëPj PḡPḡPḡP† P·PIPsCḡPsC,PSPsC— PrC—C—, CḡPePëPNë PSPμ CÍP»C—Pr P·P°CÍC,PscÍPsPICfPIP°C,Pë PíP°C†C—C”PSC,P°Pj, CḡPeC—PíCḡPëPNëPjP°CḡC,Cḡ CÍPμCḡC,CḡP°P»C—PS (PrPëPI. CḡPsP·PrC—P» B«PḡCḡPsC,PëPíPsPeP°P·P°PSPSCḡB»).

P’CfP»Pë P·P°CḡPμC”CÍC,CḡPsPIP°PSC— C,CḡP¶PeC— PíPsP±C—C±PSC— CḡPμP°PeC†C—C— Cí

PiP°C†C-C" PSC,C-PI, CIIPeC- PSpμC%oPsPrP°PIPSPs PiCηPēPiPēPSPēP»Pē
P·P°C†C,PsC†CfPIP°PSPSCII PηPηPηP† (PSP°PiCηPēPeP»P°Pr, PjPμC,PēP»PμPSPsPIPēPMē
C†PēPSC-PNē) C- CηPSP·PiPsC†P°P»Pē PiCηPēPMēPsPj C†PμCηC,CηP°P»C-PSC†, P°P±Ps CIIPeC-
PiCηPēPiPēPSPēP»Pē C,PμCηP°PiC-Cη C†PμCηC,CηP°P»C-PSPsPj PSPμP·P°PrPsPIPiPs PrPs
PiPsC†P°C,PeC† P·P°C†C,PsC†CfPIP°PSPSCII PηPηPηP†. P|C- CηPμP°PeC†C-C—
PIPeP»CηC†P°P»Pē C,CηPμPjPsCη, PjC-PsPeP»PsPSC-Cη, PiPsC†PēP»PμPSPμ
PiPsC,PsPIPēPrC-P»PμPSPSCII, PSC†PrPsC,C†, P±P»CηPIP°PSPSCII, PiC-PiPμCηPμPjC-Cη,
P·P°PiP°PjPsCηPsC†PμPSPSCII C,P° PiC-PiPμCηC,PμCηPjC-Cη P· PiCηPSCIIPIP°PjPē, C%oPs
PSP°PiP°PrC†PIP°P»Pē PSPμPMēCηPSP»PμPiC,PēC†PSPēPMē P·P»PsCIIPeC-C†PSPēPMē
C†PēPSPPrCηPsPj, C†C†PrPsPjPē C- P»PμC,P°P»CηPSPēPMē PSP°C†P»C-PrPsPe.

PμC-PjPsP·PēPr

Pj PrPsC†P»C-PrP¶PμPSPSC- P· PsPrPSPsPeCηP°C,PSPēPj PiCηPēPMēPsPjPsPj PSPēP·CηPePsC—
PrPsP·Pē PiC-PjPsP·PēPrC† (2 PjPi) C†PiPsC†C,PμCηC-PiP°P»PsC†CII P·P±C-P»CηC€PμPSPSCII
CηC-PIPSCII PiC-PjPsP·PēPrC† PiCηPēP±P»PēP·PSPs PSP° 35 %. P|Pμ PiC-PrPIPēC%oPμPSPSCII
CηC-PIPSCII PSPμ C†C†PiCηPSPiPsPrP¶C†PIP°P»PsC†CII P¶PsPrPSPēPjPē P·PjC-PSP°PjPē
PiPsPeP°P·PSPēPeC-PI P·PηP°. P†PsC†P° PjPμC...P°PSC-P·Pj C†C-C" C— PIP·P°C" PjPsPrC-C—
PSPμPIC-PrPsPjPēPMē, PsPrPSPsC†P°C†PSPμ P·P°C†C,PsC†CfPIP°PSPSCII
C†PμCηC,CηP°P»C-PSC† C- PiC-PjPsP·PēPrC† PiCηPsC,PēPiPsPeP°P·P°PSPμ C†
P·PiBη™ CIIP·PeC† P· PIC†P·CηPePēPj C,PμCηP°PiPμPIC,PēC†PSPēPj PrC-P°PiP°P·PsPSPsPj
PiC-PjPsP·PēPrC† (PrPēPI. CηPSP·PrC-P» B«PμCηPsC,PēPiPsPeP°P·P°PSPSCII»).

PkPμ CηPμPePsPjPμPSPPrC†C" C,CηC†CII PsPrPSPsC†P°C†PSPμ
P·P°C†C,PsC†CfPIP°PSPSCII P· C†PμCηC,CηP°P»C-PSPsPj

P—P°C†PsP±Pē, CIIPeC- PiCηPēPiPSC-C†C†CηC,Cη P|PkPŸ, C- P°P»PePsPiPsP»Cη

PηPrPSPsC†P°C†PSPμ P·P°C†C,PsC†CfPIP°PSPSCII C†PμCηC,CηP°P»C-PSC† C† PrPsP·C-
200 PjPi PSP° PrPsP±C† PSPμ PiPsC,PμPSC†C-CηPIP°P»Ps PμC,,PμPeC,Pē P°P»PePsPiPsP»Cη,
PeP°CηP±P°PjP°P·PμPiC-PSC†, PiP°P»PsPiPμCηPēPrPsP»C† P°P±Ps C,,PμPSC-C,PsC—PSC†
C%oPsPrPs PePsPiPSC-C,PēPIPSPēC... C,P° PiC†PēC...PsPjPsC,PsCηPSPēC... C,,C†PSPeC†C-PNē C†
P·PrPsCηPsPIPēC... C†C†P°C†PSPēPeC-PI PrPsC†P»C-PrP¶PμPSPSCII, PsPrPSP°Pe
PsPrPSPsC†P°C†PSPμ P·P°C†C,PsC†CfPIP°PSPSCII C†PμCηC,CηP°P»C-PSC† P·
P°P»PePsPiPsP»PμPj PSPμ CηPμPePsPjPμPSPPrC†C" C,CηC†CII.

P†PSC€C- C†PμCηPsC,PsPSC-PSPμCηPiC-C†PSC- P»C-PeP°CηC†CηPeC- P·P°C†PsP±Pē

(PrPēPI. CηPSP·PrC-P» B«PηC†PsP±P»PēPIPsC†C,C- P·P°C†C,PsC†CfPIP°PSPSCII»).

PμPsC,CηPμP±C†C" PsP±PμCηPμP¶PSPsC†C,C- PsPrPSPsC†P°C†PSPμ
PiCηPēP·PSP°C†PμPSPSCII C†PμCηC,CηP°P»C-PSC† P· C,,PμPSC,P°PSC-P»PsPj (C%oPs
P·P°C†C,PsC†PsPIC†C" C,CηC†CII PiPμCηPμPIP°P¶PSPs PiC-Pr C†P°C† P·P°PiP°P»CηPSPsPiPs
PSP°CηPePsP·C† C,P° PI C,PμCηP°PiC-C— C...CηPSPSC-C†PSPsPiPs P±PsP»Cη), C-PSC€PēPjPē
C†PμCηPsC,PsPSC-PSPμCηPiC-C†PSPēPjPē PiCηPμPiP°CηP°C,P°PjPē (PI C,PsPjC† C†PēC†P»C-
C-PSC€PēPjPē C†PμCηPsC,PsPSC-PSPμCηPiC-C†PSPēPjPē P°PSC,PēPrPμPiCηPμC†P°PSC,P°PjPē,
C,CηPēPiC,P°PSP°PjPē) C,P° C-PSC€PēPjPē PsPiC-PsC—PrPSPēPjPē P·P°C†PsP±P°PjPē.

PηC†PsP±P»PēPIC- P·P°PiPsP±C-P¶PSC- P·P°C...PsPrPē PiCηPē
P·P°C†C,PsC†CfPIP°PSPSC-

PμCηPμPiP°CηP°C,Pē, CIIPeC- PiPsPrPsPIP¶C†CηC,Cη C-PSC,PμCηPIP°P» QT

P PëP·PëPe PïPsPrPsPIP¶PµPSPSC¼ C-PSC,PµCḡPIP°P»Cf QTc C-/P°P±Ps
C€P»CfPSPsC±PePsPIPëC... P°CḡPëC,PjC-PMë (PSP°PïCḡPëPeP»P°Pr C€P»CfPSPsC±PePsPIPsc—
C,P°C...C-PeP°CḡPrC-C— C,PëPïCf B«PïC-CḡCfPµC,B») PjPsP¶Pµ
PïC-PrPIPëC%oCfPIP°C,PëCfC¼ Cf CḡP°P·C- PsPrPSPsC±P°CfPSPsPiPs
P·P°CfC,PsCfCfPIP°PSPSC¼ P· C-PSC€PëPjPë PïCḡPµPïP°CḡP°C,P°PjPë, C¼PeC-
PïPsPrPsPIP¶CfCḡC,Ch C-PSC,PµCḡPIP°P» QTc (PSP°PïCḡPëPeP»P°Pr PrPµC¼PeC-
P°PSC,PëPïCfPëC...PsC,PëC±PSC- P·P°CfP±Pë PMë P°PSC,PëP±C-PsC,PëPePë) (PrPëPI.
CḡPsP·PrC-P» B«PḡCfPsP±P»PëPIPsCfC,C- P·P°CfC,PsCfCfPIP°PSPSC¼B»).

P>C-C,C-PMë

PJ PïP»P°C±PµP±Ps-PePsPSC,CḡPsP»ChPsPIP°PSPsPjCf PrPsCfP»C-PrP¶PµPSPSC- P·
CfC±P°CfC,Cḡ P·PrPsCḡPsPIPëC... PrPsP±CḡPsPIPsP»ChC±C-PI PsPrPSPsC±P°CfPSPëPMë
PïCḡPëPMëPsPj CfPµCḡC,CḡP°P»C-PSCf C,P° P»C-C,C-Cḡ P·PSP°C±CfC%oPs PSPµ
P·PjC-PSCḡPIP°PI C,,P°CḡPjP°PePsPeC-PSPµC,PëPeCf P»C-C,C-Cḡ, PsPrPSP°Pe
PïCḡPëP·PIPsPrPëPI PrPs PïPsCfPëP»PµPSPSC¼ C,CḡPµPjPsCḡCf PïPsCḡC-PIPsC¼PSPs P·
PïP»P°C±PµP±Ps, C%oPs CfPIC-PrC±PëC,Ch PïCḡPs PjPsP¶P»PëPICf
C,,P°CḡPjP°PePsPrPëPSP°PjC-C±PSCf PIP·P°C”PjPsPrC-Cḡ. PµCḡPë PsPrPSPsC±P°CfPSPsPjCf
P·P°CfC,PsCfCfPIP°PSPSC- CfPµCḡC,CḡP°P»C-PSCf C,P° P»C-C,C-Cḡ CfP»C-Pr
P·P°P±PµP·PïPµC±PëC,Pë PSP°P»PµP¶PSPëPMë PePsPSC,CḡPsP»Ch.

PαPµPSC-C,PsC—PS

P PµP·CfP»ChC,P°C,Pë PïP»P°C±PµP±Ps-PePsPSC,CḡPsP»ChPsPIP°PSPsPiPs
PrPsCfP»C-PrP¶PµPSPSC¼ P· CfC±P°CfC,Cḡ P·PrPsCḡPsPIPëC... PrPsP±CḡPsPIPsP»ChC±C-PI
CfPIC-PrC±P°C,Ch PïCḡPs C,Pµ, C%oPs C,CḡPëPIP°P»PëPMë PïCḡPëPMëPsPj
CfPµCḡC,CḡP°P»C-PSCf Cf PrPsP·C- 200 PjPi/PrPsP±Cf PSPµ PïCḡPëP·PIPsPrPëC,Ch PrPs
PeP»C-PSC-C±PSPs P·PSP°C±CfC%oPsPiPs C-PSPiC-P±CfPIP°PSPSC¼ PjPµC,P°P±PsP»C-P·PjCf
C,,PµPSC-C,PsC—PSCf. PḡPrPSP°Pe PrP°PSC- P·PIC-C,C-PI PrPµC¼PePëC... PIPëPïP°PrPeC-PI
CfPIC-PrC±P°C,Ch PïCḡPs PIPëCfPsPeC- PµPeCfPïPsP·PëC±C-C— C,,PµPSC-C,PsC—PSCf Cf
PïP°C±C-C”PSC,C-PI, C¼PeC- P·P°CfC,PsCfPsPICfCḡC,Ch CfPµCḡC,CḡP°P»C-PS;
CḡPµPePsPjPµPSPPrCfC”C,ChCfC¼ PïCḡPsPIPsPrPëC,Pë PjPsPSC-C,PsCḡPëPSPi
PePsPSC±PµPSC,CḡP°C±C-C— C,,PµPSC-C,PsC—PSCf Cf PïP»P°P·PjC- PeCḡPsPIC-
PïCḡPsC,C¼PiPsPj PïPsC±P°C,PePsPIPsPiPs PµC,P°PïCf C,PµCḡP°PïC-C—
CfPµCḡC,CḡP°P»C-PSPsPj C-P· PIC-PrPïPsPIC-PrPSPëPjPë PePsCḡPµPeC±C-C¼PjPë PrPsP·Pë
C,,PµPSC-C,PsC—PSCf. PḡCḡC-Pj C,PsPiPs, PsPrPSPsC±P°CfPSPµ P·P°CfC,PsCfCfPIP°PSPSC¼
PïCḡPµPïP°CḡP°C,Cf P· C,,PµPSC-C,PsC—PSPsPj PjPsP¶Pµ PïCḡPëP·PIPµCfC,Pë PrPs
P·PSPëP¶PµPSPSC¼ PePsPSC±PµPSC,CḡP°C±C-C— CfPµCḡC,CḡP°P»C-PSCf Cf PïP»P°P·PjC-
PeCḡPsPIC-. PḡPµ PjPsP¶PSP° PIPëPeP»CḡC±PëC,Pë PjPsP¶P»PëPIC-CfC,Ch P·PSPëP¶PµPSPSC¼
PïP»P°P·PjPsPIPëC... CḡC-PIPsC-PI CfPµCḡC,CḡP°P»C-PSCf PïC-Pr PIPïP»PëPIPsPj C-PSC€PëC...
C-PSPrCfPeC,PsCḡC-PI C,,PµCḡPjPµPSC,Cf CYP3A4, P·PsPeCḡPµPjP°
C,,PµPSPsP±P°CḡP±C-C,P°P»Cf, PeP°CḡP±P°PjP°P·PµPïC-PSCf, PïCḡPµPïP°CḡP°C,C-PI
P·PIC-CḡPsP±PsCḡ C,P° CḡPëC,,P°PjPïC-C±PëPSCf.

PjCḡPëPïC,P°PSPë

PµCḡPsC,C¼PiPsPj PïPµCḡC-PsPrCf PïPsCfC,CḡPµC”CfC,CḡP°C±C-PMëPSPsPiPs
PSP°PïP»C¼PrCf PSP°PrC...PsPrPëP»Pë PïPsPsPrPëPSPsPeC- PïPsPIC-PrPsPjP»PµPSPSC¼ PïCḡPs
PIPëPïP°PrPePë CḡPsP·PIPëC,PeCf CfP»P°P±PePsCfC,C-, PïC-PïPµCḡCḡPµC,,P»PµPeCfC-C—,
PïPsCḡCfC€PµPSPSC¼ PePsPsCḡPrPëPSP°C±C-C—, PIC-PrC±CfC,C,C¼
P·P±PµPSC,PµP¶PµPSPSC¼, C,CḡPëPIPsP¶PSPsCfC,C- C,P° P·P±CfPrP¶PµPSPSC¼ PïCḡPë
PsPrPSPsC±P°CfPSPsPjCf P·P°CfC,PsCfCfPIP°PSPSC- CfPµCḡC,CḡP°P»C-PSCf C,P°

PiPμCηPμPrP°C±C- PjC-PIP°PeCfCηC-C"Pj P°P±Ps C-PSCεPēPjPē P±P»PsPeP°C,PsCηP°PjPē
PSPμCηPIPμPsPjBη™ CΠP·PsPIPμC— PiPμCηPμPrP°C±C-.

P—P°CfPsP±Pē, C%Ps PjPμC,P°P±PsP»C-P·CzCηC,CHCfCΠ P· CzC±P°CfC,Cη
C†PēC,PsC...CηPsPjCz P 450

PŸPμCηC,CηP°P»C-PS PjPsP¶Pμ PrC-CΠC,Pē CΠPe CfP»P°P±PePēPNē P°P±Ps
PiPsPjC-CηPSPēPNē C-PSPiC-P±C-C,PsCη C-P·PsC,,PμCηPjPμPSC,Cf PŸYP 2D6.
PŸCηPēPIP°P»PēPNē PiCηPēPNēPsPj CfPμCηC,CηP°P»C-PSCf Cf PrPsP·C- 50 PjPi/PrPsP±Cf
PiCηPēP·PIPμPrPēPI PrPs PiPsPjC-CηPSPμPiPs PiC-PrPIPēC%PμPSPSCΠ (Cf
CfPμCηPμPrPSCηPsPjCf PSP° 23-37 %) CηC-PIPSPμPIP°P¶PSPēC...
PePsPSC†PμPSC,CηP°C†C-PNē PrPμP·PēPiCηP°PjC-PSCf (PiPsPeP°P·PSPēPeCf
P°PeC,PēPIPSPμCfC,C- C-P·PsC,,PμCηPjPμPSC,Cf PŸYP 2D6) Cf PiP»P°P·PjC- PeCηPsPIC-.
PηP»C-PSC-C±PSPs P·PSP°C±CfC%oC- PIP·P°C"PjPsPrC-C— PjPsP¶CfC,CH
PIC-PrP±CfPIP°C,PēCfCΠ P· C-PSCεPēPjPē CfCfP±CfC,CηP°C,P°PjPē PŸYP 2D6 P·
PICfP·CHPePēPjPē C,PμCηP°PiPμPIC,PēC±PSPēPjPē PrC-P°PiP°P·PsPSP°PjPē, C,P°PePēPjPē CΠPe
PiCηPsC,PēP°CηPēC,PjC-C±PSC- P·P°CfPsP±Pē PeP»P°CfCf 1PŸ, P·PsPeCηPμPjP°
PiCηPsPiP°C,,PμPSPμPS C- C,,P»PμPeP°C—PSC-Pr, C,CηPēC†PēPeP»C-C±PSC-
P°PSC,PēPrPμPiCηPμCfP°PSC,Pē C- C,PēPiPsPIC- P°PSC,PēPiCfPēC...PsC,PēC±PSC-
P·P°CfPsP±Pē, PsCfPsP±P»PēIPμS PSP° C,P»C- P·P°CfC,PsCfCfPIP°PSPSCΠ
CfPμCηC,CηP°P»C-PSCf Cf PIPēC%PēC... PrPsP·P°C....

PŸPμCηC,CηP°P»C-PS PSPμ PIPēCfC,CfPiP°C" PeP»C-PSC-C±PSPs P·PSP°C±CfC%oPēPj
C-PSPiC-P±C-C,PsCηPsPj C-P·PsC,,PμCηPjPμPSC,C-PI CYP 3A4, CYP 2C9, CYP 2C19 C,P° CYP
1A2. PiPμ PiC-PrC,PIPμCηPrP¶CfC"C,CHCfCΠ CηPμP·CfP»CHC,P°C,P°PjPē
PrPsCfP»C-PrP¶PμPSCη PIP·P°C"PjPsPrC-C— PiCηPμPiP°CηP°C,C-PI in vivo C-P·
P·P°CfC,PsCfCfPIP°PSPSCΠPj CfCfP±CfC,CηP°C,C-PI CYP 3A4 (PμPSPμPrPsPiPμPSPμPsPiPs
PePsCηC,PēP·PsP»Cf, PeP°CηP±P°PjP°P·PμPiC-PSCf, C,PμCηC,,PμPSP°PrPēPSCf,
P°P»PiCηP°P·PsP»P°PjCf), CfCfP±CfC,CηP°C,Cf CYP2C19 (PrC-P°P·PμPiP°PjCf) C-
CfCfP±CfC,CηP°C,C-PI CYP 2C9 (C,PsP»P±CfC,P°PjC-PrCf, PiP»C-P±PμPSPeP»P°PjC-PrCf C-
C,,PμPSC-C,PsC—PSCf). P PμP·CfP»CHC,P°C,Pē PrPsCfP»C-PrP¶PμPSCη in vitro
CfPIC-PrC±P°C,CH PiCηPs C,Pμ, C%Ps CfPμCηC,CηP°P»C-PS PjP°C" PrCfP¶Pμ PjP°P»PēPNē
PiPsC,PμPSC†C-P°P» C-PSPiC-P±CfPIP°PSPSCΠ PŸYP 1Pη 2 P°P±Ps PSPμ PjP°C" PNēPsPiPs
PIP·P°PiP°P»C-.

P©PsPrPμPSPSPēPNē PiCηPēPNēPsPj C,CηCHPsC... CfPeP»CΠPSPμPe
PiCηPμPNēPiC,,CηCfC,PsPIPμPiPs CfPsPeCf PiCηPēP·PIPμPrPēPI PrPs PiC-PrPIPēC%PμPSPSCΠ
PiP»P°P·PjPsPIPēC... CηC-PIPSC-PI CfPμCηC,CηP°P»C-PSCf PjP°PNēP¶Pμ PSP° 100 % PI
PiPμCηPμC...CηPμCfPSPμPjCf PrPsCfP»C-PrP¶PμPSPSC- Cf 8 P·PrPsCηPsPIPēC... PsCfC-P±
CΠPiPsPSCfCHPePsC— PSP°C†C-PsPSP°P»CHPSPμCfC,C-. P'P·P°C"PjPsPrC-CΠ P·
C-PSCεPēPjPē C-PSPiC-P±C-C,PsCηP°PjPē CYP3A4 PSPμ P±CfP»P° PIPēPIC±PμPSP°. PŸPsPjCf
CfP»C-Pr CfPSPēPeP°C,Pē PiCηPēPNēPsPjCf PiCηPμPNēPiC,,CηCfC,PsPIPμPiPs CfPsPeCf PiC-Pr
C±P°Cf P·P°CfC,PsCfCfPIP°PSPSCΠ CfPμCηC,CηP°P»C-PSCf (PrPēPI. CηPsP·PrC-P»
B«PhCfPsP±P»PēIPμCfC,C- P·P°CfC,PsCfCfPIP°PSPSCΠB»).

P'PēC...PsPrCΠC±Pē P· CηPμP·CfP»CHC,P°C,C-PI PrPsCfP»C-PrP¶PμPSPSCΠ
PIP·P°C"PjPsPrC-C— P· PiCηPμPNēPiC,,CηCfC,PsPIPēPj CfPsPePsPj, PSPμ PjPsP¶PSP°
PIPēPeP»CηC±PēC,Pē PjPsP¶P»PēPIC-CfC,CH P·PSP°C±PSPs P±C-P»CHCεPsPiPs
PiC-PrPIPēC%PμPSPSCΠ PμPeCfPiPsP·PēC†C-C— CfPμCηC,CηP°P»C-PSCf PiCηPē
PsPrPSPμC±P°CfPSPμPjCf P·P°CfC,PsCfCfPIP°PSPSC- P· PiPsC,CfP¶PSPēPjPē
C-PSPiC-P±C-C,PsCηP°PjPē C,,PμCηPjPμPSC,Cf CYP3A4, P·PsPeCηPμPjP°
C-PSPiC-P±C-C,PsCηP°PjPē PiCηPsC,PμP°P·, PePμC,PsPePsPSP°P·PsP»PsPj,

C-C, C₇H₆P^oPePsPSP^oP·PsP»PsPj, PiPsP·P^oPePsPSP^oP·PsP»PsPj, PIPsC₇H₆P^oPePsPSP^oP·PsP»PsPj, PeP»P^oC₇H₆P^oC, C₇H₆PsPjC-C†P^oPePsPj, C, P_μP»C-C, C₇H₆PsPjC-C†P^oPePsPj C, P^o PSP_μC, „P^o·PsPrPsPSPsPj. P_iP_μ C, P^oPePsP_μ C₇C, PsC₇C₇C₇ C, C₇H₆C₇C₇ PiPsPjC-C₇H₆PSP^oC... C-PSPiC-P±C-C, PsC₇H₆-PI CYP3A4 B₇” P^oPiC₇H₆PiC-C, P^oPSC, C₇, P_μC₇H₆P^oC, C₇H₆PsPjC-C†P^oPePSC₇, C, „P»C₇PePsPSP^oP·PsP»C₇, PIP_μC₇H₆P^oPiP^oPjC-P»C₇ C, P^o PrP^oPeP»C, C-P^oP·P_μPjC₇. P₇P»C-Pr C₇PSP^oPeP^oC, P^o PiC₇H₆P^oPsPjC₇ PiPsC, C₇P_μPSP^oC... C-PSPiC-P±C-C, PsC₇H₆-PI CYP3A4 PiC-Pr C₇P^oC₇ C, P_μC₇H₆P^oPiC-C— C₇P_μC₇H₆, C₇H₆P^o»C-PSPsPj.

P' PsC₇C-P± P· PiPsPIC-P»C₇H₆PSP^oPj PjP_μC, P^oP±PsP»C-P·PjPsPj CYP2C19 PiP»P^o·PjPsPIC-C₇H₆-PIPSC- C₇P_μC₇H₆, C₇H₆P^o»C-PSC₇ PiC-PrPIP^oC%CrC₇C, C₇H₆C₇C₇ PSP^o 50 % PiPsC₇H₆-PIPSC₇PSPs P· PsC₇PsP±P^oPjP^o P· C₇PIP^oPrPeP^oPj PjP_μC, P^oP±PsP»C-P·PjPsPj CYP2C19 (PrP^oPI. C₇H₆PsP·PrC-P»B B«P^oPeP^oC₇H₆PjP^oPePsPeC-PSP_μC, P^oPeP^oB»). P₇P_μ PjPsP_μPSP^o PIP^oPeP»C₇C₇P^oC, P^o PjPsP_μP»P^oPePIC-C₇C, C₇H₆ P»C-PeP^oC₇C₇C₇PePsC— PIP·P^oC”PjPsPrC-C— P· C, P^oPeP^oPjP^o PiPsC, C₇P_μPSP^oPePjP^o C-PSPiC-P±C-C, PsC₇H₆P^oPjP^o CYP2C19 C₇Pe PsPjP_μPiC₇H₆P^o·PsP», P»P^oPSP·PsPiC₇H₆P^o·PsP», PiP^oPSC, PsPiC₇H₆P^o·PsP», C₇H₆P^oP±P_μPiC₇H₆P^o·PsP», C, „P»C₇PsPeC₇P_μC, P^oPS, C, „P»C₇PIPsPeC₇P^oPjC-PS.

P₇C₇PsP±P»P^oPIP_sC₇C, C- P·P^oC₇C, PsC₇C₇PIP^oPSPSC₇.

P₇P^oPeC- C₇P^oPePjPiC, PsPjP^o C₇Pe PSP_μC₇PiPsPeC-PN_o, P·P±C₇PrP_μPSPSC₇, PiP^oPSC-C₇PSC-P^oC, P^oPeP^o, P±P_μP·C₇PsPSPSC₇, PrC₇H₆P^oC, C-PIP»P^oPePIC-C₇C, C₇H₆, PIPsC₇H₆PsP_μC-C₇C, C₇H₆, P^oPiC₇H₆P_μC₇P^oPePIPSC-C₇C, C₇H₆, C-PjPiC₇P»C₇H₆C₇P^oPePIPSC-C₇C, C₇H₆, PiC₇P^oC...PsPjPsC, PsC₇H₆PSP^oPN_o PSP_μC₇PiPsPeC-PN_o, PiC-PiPsPjP^oPSC-C₇C, P^o PjP^oPSC-C₇C C₇PiPsC₇C, P_μC₇H₆-PiP^o»P^oPeC₇C₇ C₇ PrPsC₇H₆PsC₇P»P^oC... C, P^o PrC-C, P_μPN_o, C₇PeC-P»C-PeC₇PIP^o»P^oPeC₇C₇ P^oPSC, P^oPrP_μPiC₇H₆P_μC₇P^oPSC, P^oPjP^o. P_iC- C₇P^oPePjPiC, PsPjP^o PjPsP_μC₇C, C₇H₆ PiP_μC₇H₆PrC₇PIP^oC, P^o PiPsC₇PIC- C₇C₇C—C†P^oPrP^o»C₇H₆PSPsC₇C, C-. P₇P»C-Pr C₇H₆PsP·PiP»C₇PS₇C₇, P^o PjPsP_μP»P^oPePIC-C₇C, C₇H₆ P·PjC-PSP^o C, P_μC₇H₆P^oPiP_μPIC, P^oPeC₇PS₇PiPs C₇H₆P_μP_μP^oPePjC₇ P^oP±Ps PIC-PrPjC-PSP^o P»C-PeP^oC₇C₇C₇PePsPiPs P·P^oC₇PsP±C₇ C₇ PIP^oPiP^oPrPeC₇, C₇PeC%Ps PiC₇H₆PsC₇PIP^o PrP_μPiC₇H₆P_μC₇C— PSP_μC₇C...P^oPe»C₇H₆PSPs PiPsPiC-C₇C₇C₇C₇C, C₇H₆C₇C₇, P·B₇™ C₇PIP»C₇C”C, C₇H₆C₇C₇ C₇C₇C—C†P^oPrP^o»C₇H₆PSC-C₇C, C₇H₆ P^oP±Ps C₇P^oPePjPiC, PsPjP^o PiPsPiC-C₇C₇C₇PSPSC₇ C₇C₇C—C†P^oPrP^o»C₇H₆PSPsC₇C, C-. PiPeC%Ps P±C₇PrP_μ PiC₇H₆P^oPN_oPSC₇C, P_μ C₇H₆-C₇PeP_μPSPSC₇ PiC₇H₆Ps PiC₇H₆P^oPiP^oPSP_μPSPSC₇ P»C-PeC₇PIP^oPSPSC₇, PiC₇H₆P^oPiP^oC₇H₆P^o, C₇P»C-Pr PIC-PrPjC-PSC₇C, P^o PiPsC₇C, C₇PiPsPIPs C, P^oPe C₇PIP^oPrPePs, C₇Pe C, C-P»C₇PeP^o PjPsP_μPSP^o, P^oP»P_μ C₇P»C-Pr PiP^oPjB₇™ C₇C, P^oC, P^o PiC₇Ps C, P_μ, C%Ps C₇H₆-P·PeP_μ PiC₇H₆P^oPiP^oPSP_μPSPSC₇ P»C-PeC₇PIP^oPSPSC₇ PjPsP_μP_μ C₇C₇PiC₇H₆PsPIPsPrP_μC₇PIP^oC, P^oPeC₇C₇ C₇P^oPePSP₇C₇PsPjPsPj PIC-PrPjC-PSP^o. P_μP_μC₇H₆Pr PiPsC₇P^oC, PePsPj P»C-PeC₇PIP^oPSPSC₇ PSP_μPsP±C...C-PrPSPs PiC₇H₆PsPIP_μC₇C, P^o PsP±C₇C, P_μP_μPSPSC₇ PiP^oC†C-C”PSC, P^o P· PjP_μC, PsC₇ PIP^o·PSP^oC₇P_μPSPSC₇ C₇H₆P^o·P^oPeC₇ C₇H₆PsP·PIP^oC, PeC₇ P±C-PiPsP»C₇C₇H₆PSPsPiPs C₇H₆PsP·P»P^oPrC₇. P”P»C₇ C†C₇PsPiPs C₇H₆P_μC, P_μP»C₇H₆PSPs P·P±P^oC₇H₆P^oC, C₇H₆C₇C₇ PiC₇P^oC...C-P^oC, C₇H₆PeC₇PSP^oPN_o P^oPSP^oPjPSP_μP·, C₇PeP^oPN_o PIP^o»C₇C₇P^oC” C₇C-PjP_μPN_oPSP^oPN_o P^oPSP^oPjPSP_μP· C₇C₇C—C†P^oPrC-PI, P±C-PiPsP»C₇C₇H₆PSP^oC... C₇H₆PsP·P»P^oPrC-PI C, P^o PrP_μPiC₇H₆P_μC₇C—, P₇P_μC₇H₆P»C-C, „C, PSP_μ PiC₇H₆P^o·PSP^oC₇P_μPSP^oPN_o PrP»C₇ P»C-PeC₇PIP^oPSPSC₇ P±C-PiPsP»C₇C₇H₆PSPsC— PrP_μPiC₇H₆P_μC₇C—.

P₇P_μC₇H₆PsC, PsPSC-PSPsPIP^oPN_o C₇P^oPePSP₇C₇PsPj (P₇P₇) C₇P^oPe P·P»PsC₇PeC-C₇PSP^oPN_o PSP_μPN_oC₇PsP»P_μPiC, P^oPeC₇PSP^oPN_o C₇P^oPePSP₇C₇PsPj (P—P₇P₇)

P_μC₇H₆P^o P·P^oC₇C, PsC₇C₇PIP^oPSPSC- P₇P†P—P—P₇, PIP^o»C₇C₇P^oC₇C₇P^o C, P_μC₇H₆P^oPiC-C₇

СГРµСГС,СГР°Р»С-РSPСРj, РiPsPIC-PrPsPjP»СIIP»PsСГСI PiСГPs СГPsP·PIPëC,PsPe
СГРëPSPPrСГPsPjC-PI, C%oPs PjPsP¶CГC,СГ P±CГC,Рë PSPµP±PµP·PiPµC±PSPëPjPë PrP»СI
P¶PëC,C,СI, C,P°PePëC... СIIPe PÿPÿ C±Pë P—PкPÿ. P PëP·PëPe СГPsP·PIPëC,PeCГ PÿPÿ C±Pë
P—PкPÿ PiСГPë P·P°СГC,PsСГCГPIP°PSPSC- PÿP†P—P—Pÿ P·СГPsСГC,P°C” PiСГPë
PsPrPSPSc±P°СГPSPsPjCГ P·P°СГC,PsСГCГPIP°PSPSC- C-PSCëPëC...

СГРµСГPsC,PsPSC-PSPµСГPiC-C±PSPëC... P·P°СГPsP±C-PI (PIPeP»СГC±P°СГC±Pë C-PSCëC-
СГРµСГPsC,PsPSC-PSPµСГPiC-C±PSC- P°PSC,РëPrPµPiСГPµСГP°PSC,Рë, C,СГPëPiC,P°PSPë
C,P° C,,PµPSC,P°PSC-P») P· P·P°СГPsP±P°PjPë, C%oPs PiPsСГCГCëCГCГC,СГ
PjPµC,P°P±PsP»C-P·Pj СГРµСГPsC,PsPSC-PSCГ (PIPeP»СГC±P°СГC±Pë PëPëPëP†,
PSP°PiСГPëPeP»P°Pr, PjPµC,РëP»PµPSPsPIPëP№ СГРëPSC-P№),
P°PSC,РëPiСГPëC...PsC,РëC±PSPëPjPë P·P°СГPsP±P°PjPë C,P° C-PSCëPëPjPë
P°PSC,P°PiPsPSC-СГC,P°PjPë PrPsC,,P°PjC-PSCГ C,P° PsPiC-P°C,P°PjPë.

PÿPµСГPsC,PsPSC-PSPsPIPëP№ СГРëPSPPrСГPsPj PjPsP¶Pµ PIPeP»СГC±P°C,Рë P·PjC-PSPë
PiСГPëC...C-C±PSPsPiPs СГC,P°PSCГ (PSP°PiСГPëPeP»P°Pr, P·P±CГPrP¶PµPSPSCI,
PiP°P»СГC†PëPSP°C†C-C—, PePsPjP°), PiPsСГCГCëPµPSPSCI P· P±PsPeCГ
PIPµPiPµC,P°C,РëPIPSPSc— PSPµСГPIPSPSc— СГРëСГC,PµPjPë (C,P°C...C-PeP°СГPrC-СI,
P·PjC-PSPë P°СГC,PµСГC-P°P»СГPSPsPiPs C,РëСГPeCГ, PiC-PiPµСГC,PµСГPjC-СI),
PSPµСГPIPSPSc-Pj`СIIP·PsPIC- PiPsСГCГCëPµPSPSCI (PiC-PiPµСГСГPµC,,P»PµPeСГC-СI,
PiPsСГCГCëPµPSPSCI PePsPsСГPrPëPSP°C†C-C—) C,P°/P°P±Ps PiPsСГCГCëPµPSPSCI P·
P±PsPeCГ PsСГPiP°PSC-PI C,СГP°PIP»PµPSPSCI (PSCГPrPsC,P°, P±P»СГPIP°PSPSCI,
PrC-P°СГPµC). P”PµСIIPeC- PiСГPsСIIPë СГРµСГPsC,PsPSC-PSPsPiPs
СГРëPSPPrСГPsPjCГ, PIPeP»СГC±P°СГC±Pë PiC-PiPµСГC,PµСГPjC-СГ, СГPëPiC-PrPSC-СГC,СГ
Pj`СIIP·C-PI, P·PjC-PSPë P· P±PsPeCГ PIPµPiPµC,P°C,РëPIPSPSc— PSPµСГPIPSPSc—
СГРëСГC,PµPjPë C,P° P·PjC-PSPë PiСГPëC...C-C±PSPsPiPs СГC,P°PSCГ PiPsPrC-P±PSC- PrPs
PiСГPsСIIPIC-PI P·P»PsСIIPeC-СГPSPsPiPs PSPµP№СГPsP»PµPiC,РëC±PSPsPiPs
СГРëPSPPrСГPsPjCГ. Pj PiP°C†C-C”PSC,C-PI СГP»C-Pr PiСГPsPiPsPrPëC,Рë
PjPsPSC-C,PsСГPëPSPi PSP° PSP°СIIPISC-СГC,СГ PsP·PSP°Pe C,P° СГРëPjPiC,PsPjC-PI PÿPÿ
C±Pë P—PкPÿ (PrPëPI. СГPsP·PrC-P» B<PµСГPsC,РëPiPsPeP°P·P°PSPSCIB»).

*PµPµСГPµC...C-Pr C-P· PÿP†P—P—Pÿ, P°PSC,РëPrPµPiСГPµСГP°PSC,C-PI P°P±Ps
P°PSC,РëPsP±СГPµСГPëPIPSPëC... PiСГPµPiP°СГP°C,C-PI*

P†СГPSCГCГC,СГ PsP±PjPµP¶PµPSC- PrP°PSC- PePsPSC,СГPsP»СГPsPIP°PSPëC...
PrPsСГP»C-PrP¶PµPSCСГ P· PIPëPIC±PµPSPSCI PsPiC,РëPjP°P»СГPSPsPiPs C±P°СГCГ
PiPµСГPµPeP»СГC±PµPSPSCI P· PÿP†P—P—Pÿ, P°PSC,РëPrPµPiСГPµСГP°PSC,C-PI P°P±Ps
P°PSC,РëPsP±СГPµСГPëPIPSPëC... PiСГPµPiP°СГP°C,C-PI PSP° СГPµСГC,СГP°P»C-PS.
PÿP»C-Pr PiСГPsPiPsPrPëC,Рë PSP°P»PµP¶PSPëP№ PjPµPrPëC±PSPëP№ PSP°PiP»СIIPr PiСГPë
C,P°PePëC... P·PjC-PSP°C... P»C-PeCГPIP°PSPSCI, PsСГPsP±P»PëPiPs PiСГPë
PiPµСГPµC...PsPrC- PSP° СГPµСГC,СГP°P»C-PS P· C,P°PePëC... PiСГPµPiP°СГP°C,C-PI
C,СГPëPiP°P»PsC— PrC-C— СIIPe C,,P»CГPsPeСГPµC,РëPS.

*P†PSCëC- СГPµСГPsC,PsPSC-PSPµСГPiC-C±PSC- P·P°СГPsP±Pë, PSP°PiСГPëPeP»P°Pr
C,СГPëPiC,PsC,,P°PS, C,,PµPSC,,P»C±СГP°PjC-PS C,P° 5-PкPÿ-P°PiPsPSC-СГC,Рë*

PëPrPSPSc±P°СГPSPµ P·P°СГC,PsСГCГPIP°PSPSCI СГРµСГC,СГP°P»C-PSCГ C,P° C-PSCëPëC...
P·P°СГPsP±C-PI, C%oPs PiPsСГPëP»СГCГC,СГ СГРµСГPsC,PsPSC-PSPµСГPiC-C±PSCГ
PSPµP№СГPsC,СГP°PSCГPjC-СГC-СГ, P·PsPeСГPµPjP° C,СГPëPiC,PsC,,P°PSCГ,
C,,PµPSC,,P»CГСГP°PjC-PSCГ, C,,PµPSC,P°PSC-P»CГ, 5-PкPÿ-P°PiPsPSC-СГC,C-PI P°P±Ps
СГPsСГP»PëPSPSPëC... PiСГPµPiP°СГP°C,C-PI, СIIPeC- PjC-СГC,СIIC,СГ P·PIC-СГPsP±C-P№
(*Hypericum perforatum*), СГP»C-Pr PiСГPsPiPsPrPëC,Рë P· PsP±PµСГPµP¶PSC-СГC,СГ, C-
C,P°PePsC— PePsPjP±C-PSPsPIP°PSPSc— C,PµСГP°PiC-C— СГP»C-Pr (СГ СГP°P·C-
PjPsP¶P»PëPiPsСГC,C-) СГPSPëPeP°C,Рë (C±PµСГPµP· PjPsP¶P»PëPICГ

C,,P°CTHPjP°PePsPrPëPSP°PjC-C±PSCr PIP·P°C"PjPsPrC-CTH).

*PμPsPrPsPIP¶PμPSPSCl C-PSC,PμCTHPIP°P»Cz QTc/CεP»CzPSPsC±PePsPIP°
C,P°C...C-PeP°CTHPjC-Cl C,PëPíCz B«PíC-CTHCzPμC,B»*

PμC-Pr C±P°Cí PíPμCTHC-PsPrCí PíPsCíC,CtHPμC"CíC,CtHP°C†C-PNεPSPsPiPs
P·P°CíC,PsCíCíPIP°PSPSCl CíPμCTHC,CtHP°P»C-PSCr PíPsPIC-PrPsPjP»CllP»PsCíCí PíCtHPs
PIPëPíP°PrPePë PíPsPrPsPIP¶PμPSPSCl C-PSC,PμCTHPIP°P»Cí QTc C- CεP»CíPSPsC±PePsPIPsC—
C,P°C...C-PeP°CTHPjC-C— C,PëPíCí B«PíC-CTHCíPμC,B». P'C-P»CHCεC-CíC,CH
PIPëPíP°PrPeC-PI CíPíPsCíC,PμCTHC-PiP°P»P°CíCí PI PíP°C†C-C"PSC,C-PI P· C-PSCεPëPjPë
C,,P°PeC,PsCTHP°PjPë CtHPëP·PëPeCí PíPsPrPsPIP¶PμPSPSCl C-PSC,PμCTHPIP°P»Cí
QTc/CεP»CíPSPsC±PePsPIPsC— C,P°C...C-PeP°CTHPjC-C— C,PëPíCí B«PíC-CTHCíPμC,B». PýPsPjCí
CíP»C-Pr P· PsP±PμCTHPμP¶PSC-CíC,CTH P·P°CíC,PsCíPsPICrPIP°C,Pë CíPμCTHC,CtHP°P»C-PS
PíP°C†C-C"PSC,P°Pj C-P· C,,P°PeC,PsCTHP°PjPë CtHPëP·PëPeCí PíPsPrPsPIP¶PμPSPSCl
C-PSC,PμCTHPIP°P»Cí QTc.

PμPsCíPëP»PμPSPSCl PíC-PíPsPjP°PSC-C— P°P±Ps PjP°PSC-C—

PμPsPIC-PrPsPjP»CllP»PsCíCí PíCtHPs PIPëPSPëPePSPμPSPSCl CíPëPjPíC,PsPjC-PI
PjP°PSC-C—/PíC-PíPsPjP°PSC-C— Cí PSPμPIPμP»PëPePsPiPs PIC-PrCíPsC,PeP°
PíP°C†C-C"PSC,C-PI, CllPeC- PsC,CtHPëPjCíPIP°P»Pë P·P°CTHPμC"CíC,CtHPsPIP°PSC-
P°PSC,PëPrPμPíCtHPμCíP°PSC,Pë C,P° P°PSC,PëPsP±CíPμCíPëPIPSC- PíCtHPμPíP°CTHP°C,Pë,
PIPëP»CTH±P°CTH±Pë CíPμCTHC,CtHP°P»C-PS. PýPsPjCí CíP»C-Pr P·
PsP±PμCTHPμP¶PSC-CíC,CTH P·P°CíC,PsCíPsPICrPIP°C,Pë CíPμCTHC,CtHP°P»C-PS
PíP°C†C-C"PSC,P°Pj P· PjP°PSC-C"CTH/PíC-PíPsPjP°PSC-C"CTH PI P°PSP°PjPSPμP·C-.
PkPμPsP±C...C-PrPSPëPñ CtHPμC,PμP»CHPSPëPñ PSP°PiP»CllPr P»C-PeP°CTHCll. PμCTHPë
PIPëCllPIP»PμPSPSC- PsP·PSP°Pe PjP°PSC-P°PeP°P»CHPSPsC— C,,P°P·Pë
P·P°CíC,PsCíCíPIP°PSPSCl CíPμCTHC,CtHP°P»C-PSCr CíP»C-Pr PíCtHPëPíPëPSPëC,Pë.

PëPëP·PsC,,CTHPμPSC-Cll

PkP° C,P»C- PíCtHPëPñPsPjCí PíCtHPμPíP°CTHP°C,Cí Cí PíP°C†C-C"PSC,C-PI C-P·
CεPëP·PsC,,CTHPμPSC-C"CTH PjPsP¶CíC,CH PíPsCíPëP»CTHIP°C,PëCíCí PíCíPëC...PsC,PëC±PSC-
CíPëPjPíC,PsPjPë.

PýCzPrPsPjPë

PμCTHPë C,PμCTHP°PíC-C— CíPμCTHC,CtHP°P»C-PSPsPj PjPsP¶CíC,CH PIPëPSPëPeP°C,Pë
CíCíPrPsPjPë: CíPμCTHC,CtHP°P»C-PS PSPμ CíP»C-Pr PíCtHPëP·PSP°C±P°C,Pë C...PIPsCTHPëPj
C-P· PSPμCíC,P°P±C-P»CHPSPsCTH PμPíC-P»PμPíCíC-C"CTH; Cí C...PIPsCTHPëC... C-P·
PePsPSC,CtHPsP»CHPpsPIP°PSPsCTH PμPíC-P»PμPíCíC-C"CTH P·P°CíC,PsCíCíPIP°PSPSCl
CíPμCTHC,CtHP°P»C-PSCr PíPsC,CtHPμP±CíC" CtHPμC,PμP»CHPSPsPiPs PSP°PiP»CllPrCí.
PμP°C†C-C"PSC,P°Pj, Cí CllPePëC... PIPëPSPëPeP°CTHC,CH CíCíPrPsPjPë, PíCtHPμPíP°CTHP°C,
PSPμPsP±C...C-PrPSPs PIC-PrPjC-PSPëC,Pë.

*PýCzC—C†PëPrPë/CíCzC—C†PëPrP°P»CHPSC- PrCzPjPePë/CíCzC—C†PëPrP°P»CHPSC-
CíPíCtHPsP±Pë P°P±Ps PeP»C-PSC-C±PSC- PsP·PSP°PePë PíPsPiC-CTHCεPμPSPSCl*

PíPíPsCTHC- P· PrPμPíCtHPμCíC-C"CTH PjP°CTHC,CH PíC-PrPIPëC%PμPSCr
CíC...PëP»CHPSC-CíC,CH PrPs PIPëPSPëPePSPμPSPSCl CíCíC—C†PëPrP°P»CHPSPëC...
PrCíPjPsPe, P·P°PIP°PíP°PSPSCl CíPsP±C- CíCεPePsPrP¶PμPSCH C,P° CíPíCtHPsP±
CíCíC—C†PëPrCí (CíCíC—C†PëPrP°P»CHPSPëC... PrC-Pñ C,P° PíCtHPsCllPIC-PI). PíPμPñ

PrPsPiPsPjPsPiPsCḤ PiCḤPë PIPëPSPëPePSPµPSPSC- C†PëC... C†PëPjPiC,PsPjC-PI.

P—P°C†C,PsC†CžPIP°PSPSCḤ PrC-C,CḤPj

PŸPµCḤC,CḤP°P»C-PS PSPµ C†P»C-Pr P·P°C†C,PsC†PsPIC†PIP°C,Pë PrP»CḤ
P»C-PeC†PIP°PSPSCḤ PrC-C,PµPNë C,P° PiC-PrP»C-C,PeC-PI, P·P° PIPëPSCḤC,PePsPj
PiP°C†C-C”PSC,C-PI P· PsP±C†PµC†PëPIPSPs-PePsPjPiC†P»CḤC†PëPIPSPëPj CḤPsP·P»P°PrPsPj
PIC-PePsPj 6-17 CḤPsPeC-PI. Pj C...PsPrC- PeP»C-PSC-C†PSPëC... PrPsC†P»C-PrP¶PµPSCḤ C†
PrC-C,PµPNë, CḤPeC- PsC,CḤPëPjC†PIP°P»Pë P°PSC,PëPrPµPiCḤPµC†P°PSC,Pë,
PiPsCḤC-PIPSCḤPSPs P· PiP°C†C-C”PSC,P°PjPë, CḤPeC- PsC,CḤPëPjC†PIP°P»Pë
PiP»P°C†PµP±Ps, C†P°C†C,C-CëPµ C†PiPsC†C,PµCḤC-PiP°P»PëC†CḤ
C†C†C—C†PëPrP°P»CḤPSP° PiPsPIPµPrC-PSPeP° (C†C†C—C†PëPrP°P»CḤPSC- C†PiCḤPsP±Pë
C,P° C†C†C—C†PëPrP°P»CḤPSC- PrC†PjPePë) C- PIPsCḤPsP¶C-C†C,CḤ (PiPµCḤPµPIP°P¶PSPs
P°PiCḤPµC†C-CḤ, PsPiPsP·PëC†C-PNëPSP° PiPsPIPµPrC-PSPeP° C,P° PiPSC-PI). PiPeC%Ps,
PIPëC...PsPrCḤC†Pë P· PeP»C-PSC-C†PSPsC— PiPsC,CḤPµP±Pë, CḤC-CëPµPSPSCḤ PIC†Pµ P¶
PiCḤPëPNëPjP°”C,CḤC†CḤ PSP° PePsCḤPëC†C,CḤ PiCḤPëP·PSP°C†PµPSPSCḤ C†CḤPsPiPs
PiCḤPµPiP°CḤP°C,C†, PSPµPsP±C...C-PrPSPëPNë CḤPµC,PµP»CḤPSPëPNë PjPsPSC-C,PsCḤPëPSPi
C%PsPrPs PIPëCḤPIP»PµPSPSCḤ PsP·PSP°Pe C†C†C—C†PëPrP°P»CḤPSPëC...
C†PëPjPiC,PsPjC-PI. PḤCḤC-Pj C,PsPiPs, PrPsC†C,C†PiPSP° C,C-P»CḤPePë PsP±PjPµP¶PµPSP°
PeC-P»CḤPeC-C†C,CḤ PeP»C-PSC-C†PSPëC... PrPsPeP°P·C-PI C%PsPrPs P±PµP·PiPµPePë
PrPsPiPiPsC,CḤPëPIP°P»PsPiPs P·P°C†C,PsC†C†PIP°PSPSCḤ PiCḤPµPiP°CḤP°C,C† C†
PrC-C,PµPNë C,P° PiC-PrP»C-C,PeC-PI, C%Ps PIPeP»CḤC†P°CḤC,CḤ PIPiP»PëPI PSP° C—C...
CḤC-C†C,, C†C,P°C,PµPIPµ PrPsP·CḤC-PIP°PSPSCḤ, P° C,P°PePsP¶ PePsPiPSC-C,PëPIPSPëPNë C-
PiPsPIPµPrC-PSPePsPIPëPNë CḤPsP·PIPëC,PsPe. Pj PiPsC†C,PjP°CḤPePµC,PëPSPiPsPiPsPjC†
PiPµCḤC-PsPrC- P±C†P»Pë P·P°CḤPµC”C†C,CḤPsPIP°PSC- PiPsPIC-PrPsPjP»PµPSPSCḤ PiCḤPs
PrPµPeC-P»CḤPeP° PIPëPiP°PrPeC-PI C†PiPsPIC-P»CḤPSPµPSPsPiPs CḤPsC†C,C† C,P°
C†C,P°C,PµPiPsPiPs PrPsP·CḤC-PIP°PSPSCḤ. PḤP»C-PSC-C†PSP° P·PSP°C†C†C%C-C†C,CḤ C,P°
PiCḤPëC†PëPSPSPëPNë P·PICḤP·PsPe PiPsPePë C%Ps PSPµ P·ḄḤ™ CḤC†PsPIP°PSC-. PḤCḤPë
PrPsPiPiPsC,CḤPëPIP°P»C-PNë C,PµCḤP°PiC-C— PiP°C†C-C”PSC,C-PI PrPëC,CḤC†PsPiPs
PIC-PeC† P»C-PeP°CḤC- PjP°CḤC,CḤ P·PrC-PNëC†PSCḤPIP°C,Pë PjPsPSC-C,PsCḤPëPSPi PSP°
PiCḤPµPrPjPµC, PIPëCḤPIP»PµPSPSCḤ PIC-PrC...PëP»PµPSCḤ PIC-Pr PSPsCḤPj C†
PiCḤPsC†PµC†C- CḤPsC†C,C† C,P° CḤPsP·PIPëC,PeC† PsCḤPiP°PSC-P·PjC†.

PḤPSPsPjP°P»CḤPSC- PeCḤPsPiPsC,PµC†C-/PeCḤPsPiPsPIPëP»PëPIPë

PḤCḤPë P·P°C†C,PsC†C†PIP°PSPSC- PŸP†P—P—PŸ PiPsPIC-PrPsPjP»CḤP»PsC†CḤ PiCḤPs
PIPëPiP°PrPePë PiP°C,PsP»PsPiC-C†PSPëC... PiPµPjPsCḤP°PiC-C†PSPëC... CḤPIPëC%, C†
C,PsPjC† C†PëC†P»C- PiCḤPs CëPeC-CḤPSC- PiPµPjPsCḤP°PiC-C†PSC- CḤPIPëC%P°
(PµPeC...C-PjPsP·Pë C- PiC†CḤPiC†CḤP°), C,P° C-PSCëPëC... PiPµPjPsCḤP°PiC-C†PSPëC...
CḤPIPëC%, C,P°PePëC... CḤPe CëP»C†PSPePsPiPs-PePëCëPePsPIC- P°P±Ps
PiC-PSPµPePsP»PsPiC-C†PSC- PeCḤPsPiPsC,PµC†C-, PI C,PsPjC† C†PëC†P»C-
PeCḤPsPiPsC,PµC†C- P· P»PµC,P°P»CḤPSPëPj PSP°C†P»C-PrPePsPj.
P PµPePsPjPµPSPPrC†C”C,CḤC†CḤ P· PsP±PµCḤPµP¶PSC-C†C,CḤ P·P°C†C,PsC†PsPIC†PIP°C,Pë
PŸP†P—P—PŸ PiP°C†C-C”PSC,P°Pj, PsC†PsP±P»PëPiPs PiCḤPë PsPrPSPsC†P°C†PSPsPjC†
P·P°C†C,PsC†C†PIP°PSPSC- P· P»C-PeP°CḤC†CḤPePëPjPë P·P°C†PsP±P°PjPë, CḤPeC-, CḤPe
PIC-PrPsPjPs, PIPiP»PëPIP°CḤC,CḤ PSP° C,CḤPsPjP±PsC†PëC,P°CḤPSC† C,,C†PSPeC†C-CḤ
(PSP°PiCḤPëPeP»P°Pr P· P°PSC,PëPePsP°PiC†P»CḤPSC,P°PjPë, P°C,PëPiPsPIPëPjPë
P°PSC,PëPiC†PëC...PsC,PëC†PSPëPjPë P·P°C†PsP±P°PjPë C- C,,PµPSPsC,C-P°P·PëPSP°PjPë,
P±C-P»CḤCëC-C†C,CḤ C,CḤPëC†PëPeP»C-C†PSPëC... P°PSC,PëPrPµPiCḤPµC†P°PSC,C-PI,
P°C†PµC,PëP»C†P°P»C-C†PëP»PsPiPsCḤ PePëC†P»PsC,PsCḤ C,P°
PSPµC†C,PµCḤPsC—PrPSPëPjPë PiCḤPsC,PëP·P°PiP°P»CḤPSPëPjPë PiCḤPµPiP°CḤP°C,P°PjPë
(PḤPµP—PḤ), CḤPe C- C† PiP°C†C-C”PSC,C-PI P· PiPµPjPsCḤP°PiC-C†PSPëPjPë

P PëP·PëPe CĤPsP·PIPëC,PeCí CÍPëSPPrCĤPsPjCí PIC-PrPjC-PSPë PjPsP¶Pµ
P·P°P»PµP¶P°C,Pë PIC-Pr PeC-P»CHĤPePsC... C,,P°PeC,PsCĤC-PI, PIPeP»CĤC±P°CĤC±Pë
C,CĤPëPIP°P»C-CÍC,CH C,PµCĤP°PíC-C—, PrPsP·CíPIP°PSPSCĬ C,P°
C€PIPëPrPeC-CÍC,CH P·PSPëP¶PµPSPSCĬ PrPsP·Pë. PkP°PNëC±P°CÍC,C-C€Pµ
PíPsPIC-PrPsPjP»CĬP»PsCÍCĬ PíCĤPs C,P°PeC- CĤPµP°PeC†C-C— CĬPe
P·P°PíP°PjPsCĤPsC±PµPSPSCĬ, CÍPµPSCÍPsCĤPSC- PíPsCĤCíC€PµPSPSCĬ
(PIPeP»CĤC±P°CĤC±Pë PíP°CĤPµCÍC,PµP·C-CĤ), PíPsCĤCíC€PµPSPSCĬ CÍPSCí
(PIPeP»CĤC±P°CĤC±Pë P±PµP·CÍPsPSPSCĬ C,P° CĬCÍPeCĤP°PIC-
CÍPSPsPIPëPrC-PSPSCĬ), P·P±CíPrP¶PµPSPSCĬ P°P±Ps PIC-PrC±CíC,C,CĬ
C,CĤPµPjPsCĤ C- PíPsP»PsPIPSPëPNë P±C-P»CH. P—P°PíP°P»PsPj C†C- CÍPëPjPíC,PsPjPë
P±CíP»Pë P»PµPíPePsPíPs P°P±Ps PíPsPjC-CĤPSPsPíPs CÍC,CíPíPµPSCĬ
C,CĬP¶PePsCÍC,C-, PSpPrPSP°Pe Cí PrPµCĬPePëC... PíP°C†C-C”PSC,C-PI PIPsPSPë
PjPsP¶CíC,CH P±CíC,Pë C,CĬP¶PePëPjPë. P—P°P·PIPëC±P°PNë PIPsPSPë
PIPëPSPëPeP°CĤC,CH PíCĤPsC,CĬPíPsPj PíPµCĤC€PëC... PeC-P»CHĤPePsC... PrPSC-PI
PíC-CÍP»CĬ PíCĤPëPíPëPSPµPSPSCĬ C,PµCĤP°PíC-C—, Cí PrCíP¶Pµ
CĤC-PrPeC-CÍPSPëC... PIPëPíP°PrPeP°C... C,P°PeC- CÍPëPjPíC,PsPjPë
PIC-PrP·PSP°C±P°P»PëCÍCĬ Cí PíP°C†C-C”PSC,C-PI, CĬPeC- PIPëPíP°PrPePsPIPs
PíCĤPsPíCíCÍC,PëP»Pë PíCĤPëPNëPsPj PrPsP·Pë PíCĤPµPíP°CĤP°C,Cí. Pj
P±C-P»CHĤC€PsCÍC,C- PIPëPíP°PrPeC-PI C†C- CÍPëPjPíC,PsPjPë PjPëPSP°CĤC,CH
CÍP°PjPsCÍC,C-PNëPSPs PíCĤPsC,CĬPíPsPj 2 C,PëP¶PSC-PI, C...PsC±P° Cí
PrPµCĬPePëC... PíP°C†C-C”PSC,C-PI PIPsPSPë PjPsP¶CíC,CH C,CĤPëPIP°C,Pë
PrPsPIC€Pµ (2-3 PjC-CÍCĬC†C- C±Pë P±C-P»CHĤC€Pµ). PÿP°PePëPj C±PëPSPsPj,
CĤPµPePsPjPµPSPPrCíC”C,CHCÍCĬ PíPsCÍC,CíPíPsPIPs P·PjPµPSC€CíPIP°C,Pë PrPsP·Cí
CÍPµCĤC,CĤP°P»C-PSCí PíCĤPë PíCĤPëPíPëPSPµPSPSC- C,PµCĤP°PíC-C—
PíCĤPµPíP°CĤP°C,PsPj PíCĤPsC,CĬPíPsPj PíPµCĤC-PsPrCí Cí PeC-P»CHĤPeP°
C,PëP¶PSC-PI C±Pë PjC-CÍCĬC†C-PI PIC-PrPíPsPIC-PrPSPs PrPs PíPsC,CĤPµP±
PíP°C†C-C”PSC,P° (PrPëPI. CĤPsP·PrC-P» B«PÿPíPsCÍC-P± P·P°CÍC,PsCÍCíPIP°PSPSCĬ
C,P° PrPsP·PëB»).

PĥPeP°C,PëP·C-CĬ/PíCÍPëC...PsPjPsC,PsCĤPSPëPNë PSPµCÍPíPsPeC-PNë

P—P°CÍC,PsCÍCíPIP°PSPSCĬ CÍPµCĤC,CĤP°P»C-PSCí P°CÍPsC†C-CĤC”C,CHCÍCĬ P·
CĤPsP·PIPëC,PePsPj P°PeP°C,PëP·C-C—, C°%Ps C...P°CĤP°PeC,PµCĤPëP·CíC”C,CHCÍCĬ
CÍCíP±Bĥ™ C”PeC,PëPIPSPs PSPµPíCĤPëC”PjPSPëPj P°P±Ps PSPµPIP°PjPsPIPSPëPj
PSPµCÍPíPsPePsC”Pj C,P° PíPsC,CĤPµP±PsCĤ CĤCíC...P°C,PëCÍCĬ, C°%Ps C±P°CÍC,Ps
CÍCíPíCĤPsPIPsPrP¶CíC”C,CHCÍCĬ PSPµP·PrP°C,PSC-CÍC,CĤ CÍPëPrC-C,Pë C±Pë
CÍC,PsCĬC,Pë CÍPíPsPeC-PNëPSPs. P PëP·PëPe PIPëPSPëPePSPµPSPSCĬ C,P°PePëC...
CíCÍPeP»P°PrPSPµPSCĤ PSP°PNëP±C-P»CHĤC€PëPNë PíCĤPsC,CĬPíPsPj PíPµCĤC€PëC...
PeC-P»CHĤPePsC... C,PëP¶PSC-PI C,PµCĤP°PíC-C—. Pj PíP°C†C-C”PSC,C-PI, Cí CĬPePëC...
CĤPsP·PIPëPIP°CĤC,CHCÍCĬ C†C- CÍPëPjPíC,PsPjPë, P·P±C-P»CHĤC€PµPSPSCĬ PrPsP·Pë
PjPsP¶Pµ P±CíC,Pë C€PeC-PrP»PëPIPëPj.

P—P°CÍC,PsCÍCáPIP°PSPSCĬ PíCĤPë PíPµC±C-PSPePsPIC-PNë PSPµPrPsCÍC,P°C,PSPsCÍC,C-

PÿPµCĤC,CĤP°P»C-PS C-PSC,PµPSCÍPëPIPSPs PjPµC,P°P±PsP»C-P·CíC”C,CHCÍCĬ Cí
PíPµC±C-PSC†C-. P—P° CĤPµP·CíP»CHĤC,P°C,P°PjPë C,,P°CĤPjP°PePsPeC-PSPµC,PëC±PSPsPíPs
PrPsCÍP»C-PrP¶PµPSPSCĬ P· P±P°PíP°C,PsPeCĤP°C,PSPëPj PíCĤPëPNëPsPjPsPj
PíCĤPµPíP°CĤP°C,Cí Cí PíP°C†C-C”PSC,C-PI P·C- CÍC,P°P±C-P»CHĤPSPëPj C†PëCĤPsP·PsPj

P»PµPiPePsPiPs CÍC,CfPiPµPSCÍ CÍPíPsCÍC,PµCĤC-PiP°P»PsCÍCÍ PíPsPrPsPIP¶PµPSPSCÍ PíPµCĤC-PsPrCf PSP°PíC-PIPIPëPIPµPrPµPSPSCÍ C,P° P·P±C-P»CHC€PµPSPSCÍ AUC C,P° C_{max} PíCĤPëP±P»PëP·PSPs PIC,CĤPëC±C- PíPsCĤC-PIPSCÍPSPs P· C†PëPjPë PíPsPeP°P·PSPëPeP°PjPë PI PsCÍC-P± C-P· PSPsCĤPjP°P»CHPSPsCĤ C,,CfPSPeC†C-C”CĤ PíPµC±C-PSPePë. P—PSP°C†CfC%PëC... PIC-PrPjC-PSPSPsCÍC,PµPNë Cf CÍC,CfPiPµPSC- P·PIBĤ™ CÍP·CfPIP°PSPSCÍ PíCĤPµPíP°CĤP°C,Cf P· P±C-P»PeP°PjPë PíP»P°P·PjPë PeCĤPsPIC- PjC-P¶ C†PëPjPë PrPIPsPjP° PíCĤCfPíP°PjPë CfC±P°CÍPSPëPeC-PI PrPsCÍP»C-PrP¶PµPSPSCÍ PSPµ PIPëCÍPIP»PµPSPs. PŸP»C-Pr P±CfC,Pë PsP±PµCĤPµP¶PSPëPjPë PíCĤPë P·P°CÍC,PsCÍCfPIP°PSPSC- CÍPµCĤC,CĤP°P»C-PSCf PíP°C†C-C”PSC,P°Pj C-P· PíP°C,PsP»PsPiC-C”CĤ PíPµC±C-PSPePë. PJ PIPëPíP°PrPeCf PíCĤPëP·PSP°C†PµPSPSCÍ CÍPµCĤC,CĤP°P»C-PSCf PíP°C†C-C”PSC,P°Pj C-P· PíPsCĤCfC€PµPSPSCÍPjPë C,,CfPSPeC†C-C— PíPµC±C-PSPePë PSPµPsP±C...C-PrPSPs P·PIP°P¶PëC,Pë PrPsC†C-P»CHPSC-CÍC,CH P·PjPµPSC€PµPSPSCÍ PrPsP·Pë P°P±Ps C†P°CÍC,PsC,Pë PíCĤPëPNëPsPjCf PíCĤPµPíP°CĤP°C,Cf. PŸPµCĤC,CĤP°P»C-PS PSPµ CÍP»C-Pr P·P°CÍC,PsCÍPsPICfPIP°C,Pë PíP°C†C-C”PSC,P°Pj P· C,CÍP¶PePsCĤ PíPµC±C-PSPePsPIPsCĤ PSPµPrPsCÍC,P°C,PSC-CÍC,CĤ (PrPëPI. CĤPsP·PrC-P» B«PŸPíPsCÍC-P± P·P°CÍC,PsCÍCfPIP°PSPSCÍ C,P° PrPsP·PëB»).

P—P°CÍC,PsCÍCfPIP°PSPSCÍ PíCĤPë PSPëCĤPePsPIC-PNë PSPµPrPsCÍC,P°C,PSPsCÍC,C-

PŸPµCĤC,CĤP°P»C-PS C-PSC,PµPSCÍPëPIPSPs PjPµC,P°P±PsP»C-P·CfC”C,CHCÍCÍ; PIPëPIPµPrPµPSPSCÍ PSPµP·PjC-PSPµPSPsC— CÍPíPsP»CfPePë C-P· CÍPµC±PµCĤ C” PrCĤCfPíPsCĤCÍPPrPSPëPj C€P»CÍC...PsPj PµP»C-PjC-PSP°C†C-C—. PJ PrPsCÍP»C-PrP¶PµPSPSCÍC... P· CfC±P°CÍC,CĤ PíP°C†C-C”PSC,C-PI C-P· PíPsCĤCfC€PµPSPSCÍPj C,,CfPSPeC†C-C— PSPëCĤPsPe PIC-Pr P»PµPiPePsPiPs PrPs CÍPµCĤPµPrPSCĤPsPiPs CÍC,CfPiPµPSCÍ (PeP»C-CĤPµPSCÍ PeCĤPµP°C,PëPSC-PSCf 30-60 PjP»/C...PI) P°P±Ps PIC-Pr CÍPµCĤPµPrPSCĤPsPiPs PrPs C,CÍP¶PePsPiPs CÍC,CfPiPµPSCÍ (PeP»C-CĤPµPSCÍ PeCĤPµP°C,PëPSC-PSCf 10-29 PjP»/C...PI) C,,P°CĤPjP°PePsPeC-PSPµC,PëC±PSC- PíP°CĤP°PjPµC,CĤPë (AUC₀₋₂₄ C,P° C_{max}) PíCĤPë P±P°PíP°C,PsPeCĤP°C,PSPsPjCf PíCĤPëPNëPsPjC- PíCĤPµPíP°CĤP°C,Cf P±CfP»Pë P±PµP· CÍC,P°C,PëCÍC,PëC±PSPs P·PSP°C†CfC%PëC... PIC-PrPjC-PSPSPsCÍC,PµPNë PIC-Pr C†PëC... PíPsPeP°P·PSPëPeC-PI Cf PíCĤCfPíC- PePsPSC,CĤPsP»CĤ. PkPµPjP°C” PSPµPsP±C...C-PrPSPsCÍC,C- Cf PePsCĤPëPíCfPIP°PSPSC- PrPsP·Pë P·P°P»PµP¶PSPs PIC-Pr CÍC,CfPiPµPSCÍ PíPsCĤCfC€PµPSCĤ C,,CfPSPeC†C-C— PSPëCĤPsPe.

P—P°CÍC,PsCÍCfPIP°PSPSCÍ PíP°C†C-C”PSC,P°Pj P»C-C,PSCHPsPiPs PIC-PeCé

PJ PeP»C-PSC-C†PSPëC... PrPsCÍP»C-PrP¶PµPSPSCÍC... P±CĤP°P»Pë CfC±P°CÍC,CH PíPsPSP°Pr 700 PíP°C†C-C”PSC,C-PI P»C-C,PSCHPsPiPs PIC-PeCf (PIC-PePsPj > 65 CĤPsPeC-PI). PŸP°CĤP°PeC,PµCĤ C- C†P°CÍC,PsC,P° CĤPsP·PIPëC,PeCf PíPsP±C-C†PSPëC... CĤPµP°PeC†C-PNë Cf PíP°C†C-C”PSC,C-PI P»C-C,PSCHPsPiPs PIC-PeCf P±CfP»Pë PíPsPrC-P±PSPëPjPë PrPs C,P°PePëC..., C%Ps CÍPíPsCÍC,PµCĤC-PiP°P»PëCÍCĤ Cf PjPsP»PsPrC€PëC... PíP°C†C-C”PSC,C-PI.

PkPrPSP°Pe P·P°CÍC,PsCÍCfPIP°PSPSCÍ PŸP†P—P—PŸ C,P° P†P—P—PkPŸ, PIPeP»CĤC±P°CĤC±Pë CÍPµCĤC,CĤP°P»C-PS, P±CfP»Ps PíPsPIBĤ™ CÍP·P°PSPµ P· PIPëPíP°PrPeP°PjPë PeP»C-PSC-C†PSPs P·PSP°C†CfC%PsC— PiC-PíPsPSP°C,CĤC-C”PjC-C— Cf PíP°C†C-C”PSC,C-PI P»C-C,PSCHPsPiPs PIC-PeCf, PI CÍPePëC... PjPsP¶Pµ CÍPíPsCÍC,PµCĤC-PiP°C,PëCÍCÍ P±C-P»CHC€PëPNë CĤPëP·PëPe CĤPsP·PIPëC,PeCf C†CHPsPiPs PíPsP±C-C†PSPsPiPs CÍPIPëC%P° (PrPëPI. B«P”C-PíPsPSP°C,CĤC-C”PjC-CÍB» Cf CĤPsP·PrC-P»C- B«PkCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCfPIP°PSPSCÍB»).

PíCéPeCĤPsPIPëPNë PrC-P°P±PµC,

PJ PiP°C†C-C" PSC,C-PI P· C†C†PeC†PSPiPëPj PrC-P°P±PµC,PsPj, P·P°C†C,PsC†C†P°PSPSC†
PŸP†P—P—PŸ PjPsP¶Pµ PIPiP»PëPIP°C,Pë PSP° PiPsPeP°P·PSPëPePë PiP»C-PePµPjC-C†PSPsPiPs
PePsPSC,C†PSP»C†. P"PsP·C†PIP°PSPSC† C-PSC†C†P»C-PSC† C,P°/P°P±Ps
PiPµC†PSPC†P°P»C†PSPsPiPs PiC-PiPsPiP»C-PePµPjC-C†PSPsPiPs P·P°C†PSP±C† PjPsP¶Pµ
PiPsC,C†PµP±C†PIP°C,Pë PePsC†PëPiC†PIP°PSPSC†.

P·P»PµPeC,C†PSPsC†PSPePsPIP° C,PµC†P°PiC-C†

PµP»C-PSC-C†PSPëC... PrPsC†P»C-PrP¶PµPSC†, C†PiC†C†PjPsPIP°PSC- PSP°
PIPëPIC†PµPSPSC† C†PëP·PëPeC-PI P°P±Ps PiPµC†PµPIP°Pi PePsPjP±C-PSPsPIP°PSPsPiPs
P·P°C†C,PsC†C†PIP°PSPSC† P·PëPŸ C,P° C†PµC†C,C†P°P»C-PSC†, PSPµ PiC†PSPiPsPrPëP»Pë.

P" C†PµPNëPiC,,C†C†C,PsPIPëPNë C†C-Pe

PµPrPSPsC†P°C†PSPµ P·P°C†C,PsC†C†PIP°PSPSC† C†PµC†C,C†P°P»C-PSC† P·
PiC†PµPNëPiC,,C†C†C,PsPIPëPj C†PsPePsPj PSPµ C†PµPePsPjPµPSPrPsPIP°PSPµ (PrPëPi.
C†PSP·PrC-P»B B«P'P·P°C" PjPsPrC-C† P· C-PSC†PëPjPë P»C-PeP°C†C†PëPëPjPë
P·P°C†PSP±P°PjPë C,P° C-PSC†C- PIPëPrPë PIP·P°C" PjPsPrC-PNëB»).

P'P·P°C" PjPsPrC-C† P·C- C†PeC†PëPSC-PSPiPsPIPëPj P°PSP°P»C-P·PsPj C†PµC†C-

PµC,C†PëPjP°PSC- PiPsPIC-PrPsPjP»PµPSPSC† C%PsPrPs C...PëP±PSPs-PiPsP·PëC,PëPIPSPëC...
C-PjC†PSPsP»PsPiC-C†PSPëC... C†PeC†PëPSC-PSPiPsPIPëC... C,PµC†C,C-PI C†PµC†C- PSP°
PIPëP·PSP°C†PµPSPSC† PIPjC-C†C,C† P±PµPSP·PsPrC-P°P·PµPiC-PSC-PI C†
PiP°C†C-C" PSC,C-PI, C†PeC- PiC†PëPNëPjP°P»Pë C†PµC†C,C†P°P»C-PS. P†PëP±PSPs-
PiPsP·PëC,PëPIPSC- C†PµP·C†P»C†C,P°C,Pë P·C†PjPsPIP»PµPSC- PSPëP·C†PePsC†
C†PiPµC†PëC,,C-C†PSC-C†C,C† PIPeP°P·P°PSPsPiPs P»P°P±PsC†P°C,PsC†PSPsPiPs C,PµC†C,C†
C,P° PjPsP¶C†C,C† C†PiPsC†C,PµC†C-PiP°C,PëC†C† PIPiC†PSPrPsPIP¶ PeC-P»C†PePsC...
PrC-P± PiC-C†P»C† PiC†PëPiPëPSPµPSPSC† P»C-PeC†PIP°PSPSC† C†PµC†C,C†P°P»C-PSPsPj.
P" PëC,,PµC†PµPSC†C-C†PIP°C,Pë C†PµC†C,C†P°P»C-PS PIC-Pr
P±PµPSP·PsPrC-P°P·PµPiC-PSC-PI C† C†PµC†C- PjPsP¶P»PëPIPs C†P»C†C...PsPj
PiC†PSPiPµPrPµPSPSC† C†C,PsC†PSC†PIP°P»C†PSPëC... C,PµC†C,C-PI B†" PiP°P·PsPIPSC—
C...C†PSPjP°C,PsPiC†P°C,,C-C—/PjP°C†-C†PiPµPeC,C†PSPjPµC,C†C-C—.

P—P°PeC†PëC,PsPeC†C,PsPIP° PiP»P°C†PePsPjP°

PµC†PµPiP°C†P°C,Pë PeP»P°C†C† PŸP†P—P—PŸ, C† C,PsPjC† C†PëC†P»C-
C†PµC†C,C†P°P»C-PS, PjPsP¶C†C,C† PIPiP»PëPIP°C,Pë PSP° C†PSP·PjC-C† P·C-PSPëC†C- P·
C†PSP·PIPëC,PePsPj PjC-PrC†C-P°P·C†. PŸP°PePëPNë PµC,,PµPeC, PjPsP¶Pµ
PiC†PëP·PIPsPrPëC,Pë PrPs P·PIC†P¶PµPSPSC† PeC†C,P° PsPeP° P· PiPsPrP°P»C†C†PëPj
PiC-PrPIPëC%PµPSPSC†Pj PIPSC†C,C†C-C†PSC†PSPsC†PSPsPiPs C,PëC†PeC† C,P°
C†PSP·PIPëC,PePsPj P·P°PeC†PëC,PsPeC†C,PsPIPSC— PiP»P°C†PePsPjPë, PsC†PSP±P»PëPIPs C†
PiP°C†C-C" PSC,C-PI P· PIC-PrPiPsPIC-PrPSPsC† C†C...PëP»C†PSC-C†C,C†.
PŸPµC†C,C†P°P»C-PS C†P»C-Pr P·P°C†C,PsC†PSPiC†PIP°C,Pë P· PsP±PµC†PµP¶PSC-C†C,C†
PiP°C†C-C" PSC,P°Pj C-P· P·P°PeC†PëC,PsPeC†C,PsPIPSC† PiP»P°C†PePsPjPsC† C,P°
PiP»P°C†PePsPjPsC† PI P°PSP°PjPSPµP·C-.

***P—P°C†C,PsC†C†PIP°PSPSC† C† PiPµC†C-PsPr PIP°PiC-C,PSPsC†C,C- P°P±Ps
PiPsPrC†PIP°PSPSC† PiC†C†PrPrC†.***

P'P°PiC-C,PSC-C†C,C†

РљР»С-РSC-РePs-C,,Р°СҗРјР°РePsP»PsPiC-C±PSC- РrPsCГР»C-РrP¶PµPSPSCЦ
CГРPIC-РrC±Р°C,Сҗ PiCҗPs PIC-РrCГCрC,PSC-CГC,Сҗ PIPiP»PëPICр CГPµCҗC,СҗР°P»C-PSCр
PSP° PiCГPëC...PsPjPsC,PsCҗPSC- C,,CрPSPeC†C-C—. PhPrPSP°Pe C...PIPсCҗPëPj CГР»C-Рr
РrPsC,СҗРëPjCрPIP°C,PëCГCЦ PsP±PµCҗPµP¶PSPсCГC,C-, PsCГPeC-Р»СҗPëPë P·Р°CГC-Р±
PjPsP¶Pµ PiPsCҗCрCëCрPIP°C,Pë PiCГPëC...C-C±PSC- Р°P±Ps C,,C-Р·PëC±PSC-
CҗPµP°PeC†C-C—, PSPµPsP±C...C-РrPSC- РrP»CЦ PIPëPePsPSP°PSPSCЦ
PiPsC,РµPSC†C-Р№PSPs PSPµP±PµP·PiPµC±PSPëC... P·Р°PIPrP°PSCҗ, C,Р°PePëC... CЦPe
CрPiCҗР°PIP»C-PSPSCЦ Р°PIC,PsPjPsP±C-Р»PµPj Р°P±Ps CҗPsP±PsC,Р° P· C-PSCëPëPjPë
PjPµC...P°PSC-Р·PjP°PjPë.

РҮРiPsCГC-Р± Р·Р°CГC,PsCГCзPIP°PSPSCЦ C,Р° РrPsP·Pë.

РҮРµCҗC,СҗР°P»C-PS PiCҗPëP№PjP°C,Pë 1 CҗР°P· PSP° РrPsP±Cр (PICҗР°PSC†C- Р°P±Ps
PIPIPµC±PµCҗC-).

РҮР°P±P»PµC,PePë CГPµCҗC,СҗР°P»C-PSCр PjPsP¶PSP° PiCҗPëP№PjP°C,Pë
PSPµP·P°P»PµP¶PSPs PIC-Рr PIP¶PëPIP°PSPSCЦ C—P¶C-.

РµPsC±P°C,PsPe P»C-PeCзPIP°PSPSCЦ

Р”РµPiCҗPµCГC-CЦ C,Р° РҗPµP

Р>C-РeCрPIP°PSPSCЦ CГPµCҗC,СҗР°P»C-PSPsPj CГР»C-Рr CҗPsP·PiPsC±PëPSP°C,Pë P· РrPsP·Pë
50 PjPi/РrPsP±Cр.

*РµP°PSC-C±PSC- CҗPsP·P»P°Ppë, РµPҮPҮP C,Р° CГPsC†C-Р°P»СҗPSPëP№
C,CҗPëPIPsP¶PSPëP№ CҗPsP·P»P°Pp*

Р>C-РeCрPIP°PSPSCЦ CГР»C-Рr CҗPsP·PiPsC±PëPSP°C,Pë P· РrPsP·Pë 25 PjPi/РrPsP±Cр.
P§PµCҗPµP· 1 C,PëP¶PrPµPSCҗ РrPsP·Cр CГР»C-Рr PiC-РrPIPëC%PëC,Pë РrPs 50 PjPi 1 CҗР°P·
PSP° РrPsP±Cр. P’CрP»Ps PiPsPeP°P·P°PSPs, C%Ps C,Р°PePëP№ CҗPµP¶PëPj
РrPsP·CрPIP°PSPSCЦ P·PSPëP¶CрC” C±P°CГC,PsC,Cр CҗPsP·PIPëC,PeCр PSP°
PiPsC±P°C,PePsPIPsPjCр PµC,Р°PiC- P»C-РeCрPIP°PSPSCЦ PiPsP±C-C±PSPëC... PµC,,PµPeC,C-PI,
C...P°CҗР°PeC,РµCҗPSPëC... РrP»CЦ PiP°PSC-C±PSPëC... CҗPsP·P»P°PpC-PI.

РҮPëC,CҗCзPIP°PSPSCЦ РrPsP·Pë

*Р”РµPiCҗPµCГC-CЦ, РҗPµP , PiP°PSC-C±PSC- CҗPsP·P»P°Ppë, CГPsC†C-Р°P»СҗPSPëP№
C,CҗPëPIPsP¶PSPëP№ CҗPsP·P»P°Pp C,Р° РµPҮPҮP*

Pj PiP°C†C-C”PSC,C-PI, CЦPeC- PSPµ PIC-РrPiPsPIC-РrP°CҗC,Сҗ PSP° РrPsP·Cр 50 PjPi,
PµC,,PµPeC, PjPsP¶Pµ P±CрC,Pë РrPsCГCЦPiPSCрC,PëP№ PiCҗPë PiC-РrPIPëC%PµPSPSC-
РrPsP·Pë. РљPsCҗPµPeC†C-Cҗ РrPsP·Pë CГР»C-Рr CҗPsP·PiPsC±PëPSP°C,Pë PSPµ
CҗР°PSC-CëPµ, PSC-P¶ C±PµCҗPµP· 1 C,PëP¶PrPµPSCҗ P»C-РeCрPIP°PSPSCЦ,
P·P±C-Р»СҗCëCрCҗC±Pë C—C— PiPsCГC,CрPiPsPIPs PiPs 50 PjPi P· PiCҗPsPjC-P¶PeP°PjPë
C,CҗPëPIP°P»C-CГC,Сҗ PiCҗPëPSP°P№PjPSC- PI PsPrPëPS C,PëP¶PrPµPSCҗ.
РҗP°PeCГPëPjP°P»СҗPSP° РrPsP·P° PSPµ PjP°C” PiPµCҗPµPIPëC%CрPIP°C,Pë
200 PjPi/РrPsP±Cр. РљPsCҗPµPeC†C-Cҗ РrPsP·Pë CГР»C-Рr PiCҗPsPIPsPrPëC,Pë PSPµ
C±P°CГC,C-CëPµ, PSC-P¶ 1 CҗР°P· PSP° C,PëP¶PrPµPSCҗ, P·PIP°P¶P°CҗC±Pë PSP°
PiPµCҗC-PsPr PSP°PiC-PIPIPëPIPµPrPµPSPSCЦ CГPµCҗC,СҗР°P»C-PSCр, C%Ps
CГC,Р°PSPsPIPëC,Сҗ 24 PiPsPrPëPSPë.

PhPrPSP°Pe, PiCTjPe PiC-PrPIPëC%oPµPSPSC- PrPsP·Pë PiPsPSP°Pr 50 PjPi Cr
PiPµPrC-P°C,CTjC-C— CÍP»C-Pr PICtjP°C...PsPICrPIP°C,Pë P·P°PiP°P»PsPj PSPëP¶C±Cr PjP°CÍCr
C,C-P»P° PrC-C,PµPNë PiPsCTjC-PIPSC¶PSPs P· PrPsCTjPsCÍP»PëPjPë. PkPµ CÍP»C-Pr
P·PjC-PSCtjPIP°C,Pë PrPsP·Cr C±P°CÍC,C-CëPµ, PSC-P¶ 1 CTjP°P· PSP° C,PëP¶PrPµPSCtj.

P·C,,PµPeC,PëPIPSC-CÍC,CTj PiCTjPµPiP°CTjP°C,Cr Cr PrC-C,PµPNë P· PIPµP»PëPePëPj
PrPµPiCTjPµCÍPëPIPSPëPj CTjPsP·P»P°PrPsPj PiCTjPsPrPµPjPsPSCÍC,CTjPsPIP°PSP° PSPµ
P±CÍP»P°.

P°P°PSC- C%oPsPrPs P·P°CÍC,PsCÍCrPIP°PSPSC¶ PiCTjPµPiP°CTjP°C,Cr PrC-C,C¶Pj PrPs 6
CTjPsPeC-PI PIC-PrCÍCrC,PSC- (PrPëPI. B«PhCÍPsP±P»PëPIPsCÍC,C-
P·P°CÍC,PsCÍCrPIP°PSPSC¶B»).

P—P°CÍC,PsCÍCzPIP°PSPSC¶ PiP°CtC-C°PSC,P°Pj P»C-C,PSCtjPsPiPs PIC-PeCz

PµP°CtC-C°PSC,P°Pj P»C-C,PSCtjPsPiPs PIC-PeCr PiCTjPµPiP°CTjP°C, CÍP»C-Pr
P·P°CÍC,PsCÍPsPICrPIP°C,Pë P· PsP±PµCTjPµP¶PSC-CÍC,CTj, PsCÍPeC-P»CTjPePë CtC-
PiP°CtC-C°PSC,Pë PjPsP¶CÍC,CTj PjP°P,C,Pë PiC-PrPIPëC%oPµPSPëPNë CTjPëP·PëPe
CTjPsP·PIPëC,PeCr PiC-PiPsPSP°C,CTjC-C°PjC-C— (PrPëPI. CTjPsP·PrC-P»
B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCrPIP°PSPSC¶B»).

P—P°CÍC,PsCÍCzPIP°PSPSC¶ PiCTjPë PiPµC±C-PSPePsPIC-PNë PSPµPrPsCÍC,P°C,PSPsCÍC,C-

PŸP»C-Pr P±CÍC,Pë PsP±PµCTjPµP¶PSPëPjPë PiCTjPë P·P°CÍC,PsCÍCrPIP°PSPSC-
CÍPµCTjC,CTjP°P»C-PSCr C...PIPsCTjPëPj P· PiP°P,PsP»PsPiC-C°CTj PiPµC±C-PSPePë. PµCTjPë
PiPsCTjCrCëPµPSPSC¶C... C,,CrPSPeCtC-C— PiPµC±C-PSPePë PSPµPsP±C...C-PrPSPs
P·PjPµPSCëPëC,Pë PrPsP·Cr P°P±Ps C±P°CÍC,PsC,Cr PiCTjPëPNëPsPjCr PiCTjPµPiP°CTjP°C,Cr.
PŸPµCTjC,CTjP°P»C-PS PSPµ CÍP»C-Pr P·P°CÍC,PsCÍPsPICrPIP°C,Pë PiP°CtC-C°PSC,P°Pj C-P·
C,C¶P¶PePsCTj PiPµC±C-PSPePsPIPSCtj PSPµPrPsCÍC,P°C,PSC-CÍC,CTj, PsCÍPeC-P»CTjPePë
PeP»C-PSC-C±PSC- PrP°PSC- C%oPsPrPs P·P°CÍC,PsCÍCrPIP°PSPSC¶ PiCTjPµPiP°CTjP°C,Cr
C,P°PePëPj C...PIPsCTjPëPj PIC-PrCÍCrC,PSC- (PrPëPI. CTjPsP·PrC-P»
B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCrPIP°PSPSC¶B»).

P—P°CÍC,PsCÍCzPIP°PSPSC¶ PiCTjPë PSPëCTjPePsPIC-PNë PSPµPrPsCÍC,P°C,PSPsCÍC,C-

PµCTjPë PiPsCTjCrCëPµPSPSC¶C... C,,CrPSPeCtC-C— PSPëCTjPsPe PePsCTjPëPiCrPIP°PSPSC¶
PrPsP·Pë PiCTjPµPiP°CTjP°C,Cr PSPµ PiPsC,CTjC-P±PSPµ (PrPëPI. CTjPsP·PrC-P»
B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCrPIP°PSPSC¶B»).

PŸPëPjPiC,PsPjPë PIC-PrPjC-PSPë, C¶PeC- CÍPiPsCÍC,PµCTjC-PiP°CTjC,CTjCÍC¶ PiCTjPë
PiCTjPëPiPëPSPµPSPSC- C,PµCTjP°PiC-C— CÍPµCTjC,CTjP°P»C-PSPsPj

PŸP»C-Pr CrPSPëPeP°C,Pë CTjP°PiC,PsPIPsiPs PiCTjPëPiPëPSPµPSPSC¶
P·P°CÍC,PsCÍCrPIP°PSPSC¶ PiCTjPµPiP°CTjP°C,Cr. PµCTjPë PiCTjPëPiPëPSPµPSPSC-
P»C-PeCrPIP°PSPSC¶ CÍPµCTjC,CTjP°P»C-PSPsPj, C%oPsP± P·PjPµPSCëPëC,Pë CTjPëP·PëPe
CTjPsP·PIPëC,PeCr CTjPµP°PeCtC-PNë CÍPëPSPrCTjPsPjCr PIC-PrPjC-PSPë, PrPsP·Cr CÍP»C-Pr
PiPsCÍC,CrPiPsPIPs P·PjPµPSCëCÍPIP°C,Pë C%oPsPSP°PNëPjPµPSCëPµ PiCTjPsC,C¶PiPsPj 1-2
C,PëP¶PSC-PI (PrPëPI. CTjPsP·PrC-P» B«PhCÍPsP±P»PëPIPsCÍC,C-
P·P°CÍC,PsCÍCrPIP°PSPSC¶B» C- B«PµPsP±C-C±PSC- CTjPµP°PeCtC-C—B»). PiPeC%oPs
PiC-CÍP»C¶ P·PjPµPSCëPµPSPSC¶ PrPsP·Pë PiCTjPµPiP°CTjP°C,Cr P°P±Ps
PiCTjPëPiPëPSPµPSPSC¶ PNëPsPiPs P·P°CÍC,PsCÍCrPIP°PSPSC¶ P·Bt™ C¶IP»C¶CTjC,CTjCÍC¶
PSPµCÍC,PµCTjPiPSC- CÍPëPjPiC,PsPjPë, PjPsP¶Pµ P±CÍC,Pë CTjPsP·PiP»C¶PSCrC,Pµ
PIC-PrPSPsPIP»PµPSPSC¶ P·P°CÍC,PsCÍCrPIP°PSPSC¶ PiCTjPµPiP°CTjP°C,Cr Cr CTjP°PSC-CëPµ

PiCtjPëP·PSP°C±PµPSC-PNë PrPsP·C-. PJ PiPsPrP°P»CHC€PsPjCf P»C-PeP°Ctj PjPsP¶Pµ
PiCtjPsPrPsPIP¶CfPIP°C,Pë P·PjPµPSC€CfPIP°C,Pë PrPsP·Cf, P°P»Pµ P±C-P»CHC€
PiPsCfC,CfPiPsPIPs.

P°C-C,Pë.

PÿPµCtjC,CtjP°P»C-PS PSPµ CfP»C-Pr P·P°CfC,PsCfPsPICfPIP°C,Pë PrP»Cfj
P»C-PeCfPIP°PSPSCfj PrC-C,PµPNë, PeCtjC-Pj PrC-C,PµPNë P· PsP±CfPµCfPëPIPS-
PePsPjPiCfP»CHCfPëPIPSPëPjPë CtjPsP·P»P°PrP°PjPë PIC-Pr 6 CtjPsPeC-PI (PrPëPI.
CtjPsP·PrC-P» B«PÿPiPsCfC-P± P·P°CfC,PsCfCfPIP°PSPSCfj C,P° PrPsP·PëB»).

PµPµCtjPµPrPsP·CzPIP°PSPSCfj.

PÿPsPeCfPëC±PSC-CfC,CH

PÿPµCtjC,CtjP°P»C-PS PjP°C” PrC-P°PiP°P·PsPS P±PµP·PiPµPePë, C%Ps P·P°P»PµP¶PëC,CH
PIC-Pr PiPsPiCfP»CfjCfC-C— PiP°CfC-C”PSC,C-PI C,P°/P°P±Ps CfCfPiCfC,PSCHPsPiPs
P·P°CfC,PsCfCfPIP°PSPSCfj P»C-PeP°CtjCfCHPePëC... P·P°CfPsP±C-PI.
PµPsPIC-PrPsPjP»CfjP»PsCfCfj PiCtjPs P»PµC,P°P»CHPSC- PIPëPiP°PrPePë
PiPµCtjPµPrPsP·CfPIP°PSPSCfj CfPµCtjC,CtjP°P»C-PSPsPj CfjPe PiCtjPë PsPeCtjPµPjPsPjCf
P·P°CfC,PsCfCfPIP°PSPSC- (P±PµP· CfCfPiCfC,PSC-C... PiCtjPµPiP°CtjP°C,C-PI), C,P°Pe C- Cf
PePsPjP±C-PSP°CfC-C— P· C-PSC€PëPjPë P·P°CfPsP±P°PjPë C,P°/P°P±Ps P°P»PePsPiPsP»PµPj.
PJ P·PiBtj™ CfjP·PeCf P· CfPëPj, PePsP¶PµPS PIPëPiP°PrPsPe PiPµCtjPµPrPsP·CfPIP°PSPSCfj
PiPsC,CtjPµP±CfC” C-PSC,PµPSCfPëPIPSsC— C,PµCtjP°PiC-C—.

PÿPëPjPiC,PsPjPë

PÿPëPjPiC,PsPjPë PiPµCtjPµPrPsP·CfPIP°PSPSCfj PIPeP»CHC±P°CHC,CH PiPsP±C-C±PSC-
PµC„PµPeC,Pë, PsPiPsCfPµCtjPµPrPePsPIP°PSC- CfPµCtjPsC,PsPSC-PSPsPj, C,P°PeC- CfjPe
CfPsPSP»PëPIC-CfC,CH, C€P»CfPSPePsPIPs-PePëC€PePsPIC- PiPsCtjCfC€PµPSPSCfj
(PSP°PiCtjPëPeP»P°Pr PSCfPrPsC,P° C,P° P±P»CHPIP°PSPSCfj), C,P°C...C-PeP°CtjPrC-Cfj,
C,CtjPµPjPsCtj, P·P±CfPrP¶PµPSPSCfj C- P·P°PiP°PjPsCtjPsC±PµPSPSCfj.
PµPsPIC-PrPsPjP»CfjP»PsCfCfj PiCtjPs CtjPsP·PIPëC,PsPe PePsPjPë, PiCtjPsC,Pµ PjPµPSC€
C±P°CfC,Ps.

PµC-CfP»Cfj PiPµCtjPµPrPsP·CfPIP°PSPSCfj CfPµCtjC,CtjP°P»C-PSPsPj
PiPsPIC-PrPsPjP»CfjP»PsCfCfj PiCtjPs PiPsPrPsPIP¶PµPSPSCfj C-PSC,PµCtjPIP°P»Cf
QTc/C€P»CfPSPsC±PePsPICf C,P°C...C-PeP°CtjPrC-Ctj C,PëPiCf B«PiC-CtjCfPµC,B», C,PsPjCf PI
CfCfC-C... PIPëPiP°PrPeP°C... PiPµCtjPµPrPsP·CfPIP°PSPSCfj CfPµCtjC,CtjP°P»C-PSPsPj
CtjPµPePsPjPµPSPPrCfC”C,CHCfCfj PiCtjPsPIPsPrPëC,Pë P·P”P”-PjPsPSC-C,PsCtjPëPSPI.

PÿPµCtjP°PiC-Cfj

PÿPiPµCfPëC,,C-C±PSPëC... P°PSC,PëPrPsC,C-PI CfPµCtjC,CtjP°P»C-PSCf PSPµ C-CfPSCfC”.
P PµPePsPjPµPSPPrCfC”C,CHCfCfj P·P°P±PµP·PiPµC±PëC,Pë C-
PiC-PrC,CtjPëPjCfPIP°C,Pë PiCtjPsC...C-PrPSC-CfC,CH PrPëC...P°P»CHPSPëC...
C€P»CfjC...C-PI C,P° PrPsCfC,P°C,PSC-PNë CtjC-PIPµPSCHPsPeCfPëPiPµPSP°CfC-C—
C- PIPµPSC,PëP»CfjCfC-C—, CfjPeC%Ps CfPµ PSPµPsP±C...C-PrPSPs. PµCtjPëPNëPsPj
P°PeC,PëPIPsPIP°PSPsPiPs PICfPiC-P»P»Cfj, C%Ps PjPsP¶Pµ
P·P°CfC,PsCfPsPICfPIP°C,PëCfCfj CtjP°P·PsPj C-P· PiCtjPsPSPsCfPSPëPj

P·P°CΓPsP±PsPj, PjPsP¶Pμ P±CfC, Pë PSPμ PjPμPSC€ PμC,, PμPeC, PëPIPSPëPj P·P°
PïCĤPsPjPëPIP°PSPSCĬ C€P»CfPSPeP°. P'PëPeP»PëPeP°PSPSCĬ P±P»CĤPIP°PSPSCĬ
PSPμ CĤPμPePsPjPμPSPrPsPIP°PSPμ. P PμPePsPjPμPSPrPsPIP°PSPëPμ
PjPsPSC-C, PsCĤPëPSPi CΓPμCĤC†PμPIPsC— PrC-CĬP»CĤPSPsCfC, C-
(PSP°PïCĤPëPeP»P°Pr P·PĽP"), P° C, P°PePsP¶ PsCfPSPsPIPSPëC... P¶PëC, C, C"PIPëC...
PïPsPeP°P·PSPëPeC-PI CĤP°P·PsPj C-P· P·P°PiP°P»CĤPSPsCĤ
CΓPëPjPïC, PsPjP°C, PëC†PSPsCĤ C, P° PïC-PrC, CĤPëPjCfCĤC†PsCĤ C, PμCĤP°PïC-C"Ĥ.
P'ĤP°C...PsPICfCĤC†Pë P·PSP°C†PSPëPμ PsP±BĤ™ C" Pj CĤPsP·PïPsPrC-P»Cf
CΓPμCĤC, CĤP°P»C-PSCf, C, P°PeC- P·P°C...PsPrPë CĬPe C,, PsCĤCfPsPIP°PSPëPμ
PrC-CfCĤPμP·, PrC-P°P»C-P·, PiPμPjPsPiPμCĤC,, CfP·C-CĬ P°P±Ps P·P°PjC-PSPSP°
PiPμPjPsC, CĤP°PSCfC,, CfP·C-CĬ PSP°PICĤCĬPr C†Pë PjPsP¶CfC, CĤ P±CfC, Pë
PePsCĤPëCfPSPëPjPë.

PμPsP±C-C†PSC- CĤPμP°PeC†C-C—.

PkP°PμC†P°CfC, C-C€Pμ CΓPïPsCfC, PμCĤC-PiP°C"C, CĤCfCĬ C, P°PePëPμ PïPsP±C-C†PSPëPμ
PμC,, PμPeC, CĬPe PSCfPrPsC, P°. PμCĤPë P»C-PeCfPIP°PSPSC- CΓPsC†C-P°P»CĤPSPsPiPs
C, CĤPëPIPSP¶PSPsPiPs CĤPsP·P»P°PrCf CΓPμCĤC, CĤP°P»C-PSPsPj CΓ 14 % C†PsP»PsPIC-PeC-PI
PIC-PrP·PSP°C†P°P»P°CfCĬ CΓC, P°C, PμPIP° PrPëCfC,, CfPSPeC†C-CĬ (PïPsCĤCfC€PμPSPSCĬ
PμCĬPeCfP»CĬC†C-C—) PïPsCĤC-PIPSCĬPSPs P· 0 % PiP°C†C-C"PSC, C-PI, CĬPeC-
PsC, CĤPëPjCfPIP°P»Pë PiP»P°C†PμP±Ps. P|C- PïPsP±C-C†PSC- PμC,, PμPeC, Pë C"
PrPsP·PsP·P°P»PμP¶PSPëPjPë C- PIPsPSPë C†P°CfC, Ps CΓP°PjPsCfC, C-PμPSPs
P·PSPëPeP°CĤC, CĤ PïCĤPë PïCĤPsPrPsPIP¶PμPSPSC- C, PμCĤP°PïC-C—.

PμCĤPsC,, C-P»CĤ PïPsP±C-C†PSPëC... PμC,, PμPeC, C-PI, C%Ps C†P°CfC, Ps
CΓPïPsCfC, PμCĤC-PiP°P»PëCfCĬ CΓ C...PsPrC- PïCĤPsPIPμPrPμPSPSCĬ PïPsPrPIC-PμPSPëC...
CΓP»C-PiPëC... PiP»P°C†PμP±Ps-PePsPSC, CĤPsP»CĤPsPIP°PSPëC... PrPsCfP»C-PrP¶PμPSCĤ P·
CfC†P°CfC, CĤ PïP°C†C-C"PSC, C-PI P· PĥPĽP , PiP°PSC-C†PSPëPjPë CĤPsP·P»P°PrP°PjPë,
PμPÿPÿP C, P° CΓPsC†C-P°P»CĤPSPëPjPë C, CĤPëPIPSP¶PSPëPjPë CĤPsP·P»P°PrP°PjPë, P±CfPI
PïPsPrC-P±PSPëPj PrPs C, P°PePsPiPs CΓ PïP°C†C-C"PSC, C-PI P· PrPμPïCĤPμCfC-C"Ĥ, CĬPeC-
P±CĤP°P»Pë CfC†P°CfC, CĤ CΓ PeP»C-PSC-C†PSPëC... PrPsCfP»C-PrP¶PμPSPSCĬC....

PkPëP¶C†Pμ PSP°PIPμPrPμPSPs PrP°PSC- PïCĤPs PïPsP±C-C†PSC- CĤPμP°PeC†C-C—, C%Ps
CΓPïPsCfC, PμCĤC-PiP°P»PëCfCĬ CΓ PïPμCĤC-PsPr PïPsCfC, CĤPμC"CfC, CĤP°C†C-PμPSPsPiPs
PSP°PiP»CĬPrCf (C†P°CfC, PsC, P° C—C... CĤPsP·PIPëC, PeCf PSPμPIC-PrPsPjP°) C- PI C...PsPrC-
PïCĤPsPIPμPrPμPSPSCĬ PiP»P°C†PμP±Ps-PePsPSC, CĤPsP»CĤPsPIP°PSPëC...
PeP»C-PSC-C†PSPëC... PrPsCfP»C-PrP¶PμPSCĤ (CΓ CĬPePëC... CΓ C†C-P»PsPjCf PIP·CĬP»Pë
CfC†P°CfC, CĤ 2542 PïP°C†C-C"PSC, Pë, CĬPeC- PsC, CĤPëPjCfPIP°P»Pë CΓPμCĤC, CĤP°P»C-PS,
C- 2145 PïP°C†C-C"PSC, C-PI, CĬPeC- PsC, CĤPëPjCfPIP°P»Pë PiP»P°C†PμP±Ps) P· CfC†P°CfC, CĤ
C...PIPSCĤPëC... P· PrPμPïCĤPμCfC-C"Ĥ, PĥPĽP , PiP°PSC-C†PSPëPjPë CĤPsP·P»P°PrP°PjPë,
PμPÿPÿP C, P° CΓPsC†C-P°P»CĤPSPëPjPë C, CĤPëPIPSP¶PSPëPjPë CĤPsP·P»P°PrP°PjPë.

P" PμCĬPeC- P· PSPëP¶C†Pμ PSP°PIPμPrPμPSPëC... PïPsP±C-C†PSPëC... CĤPμP°PeC†C-Pμ
PjPsP¶CfC, CĤ P·PjPμPSC€CfPIP°C, PëCfCĬ P·P° C-PSC, PμPSCfPëPIPSC-CfC, CĤ C, P°
C†P°CfC, PsC, PsCĤ P·P° CfPjPsPIPë C, CĤPëPIP°P»PsPiPs P»C-PeCfPIP°PSPSCĬ C, P° PSPμ
PïCĤPëP·PIPPrCĬC, CĤ PrPs PïCĤPëPiPëPSPμPSPSCĬ C, PμCĤP°PïC-C—.

PkPëP¶C†Pμ PSP°PIPμPrPμPSP° C†P°CfC, PsC, P° CĤPsP·PIPëC, PeCf PïPsP±C-C†PSPëC...
CĤPμP°PeC†C-Pμ, C%Ps CΓPïPsCfC, PμCĤC-PiP°P»PëCfCĬ CΓ C...PsPrC-

PiC7PsPIPµPrPµPSPSCΠ PiP»P°C†PµP±Ps-PePsPSC, C7PsP»CHPsPIP°PSPëC...
PeP»C-PSC-C†PSPëC... PrPsC†P»C-PrP¶PµPSC7 Cr PiP°C†C-C" PSC, C-PI P-
PrPµPiC7PµC†C-C" C7, PhP7P, PiP°PSC-C†PSPëPjPë C7PsP·P»P°PrP°PjPë, PµPÿPÿP C, P°
C†PsC†C-P°P»CHPsPëPjPë C, C7PëPIP¶PSPëPjPë C7PsP·P»P°PrP°PjPë. PkP°PIPµPrPµPSPs
PsP±B7™ C" PrPSP°PSC- PrP°PSC- PeP»C-PSC-C†PSPëC... PrPsC†P»C-PrP¶PµPSC7 C-
PiC-C†P»CΠC7PµC" C†C, C7P°C†C-PNëPSPsPiPs PSP°PiP»CΠPrCr (C†P°C†C, PsC, P°
PSPµPIC-PrPsPjP°).

P7P°C†C, PsC, P° PiPsP±C-C†PSPëC... C7PµP°PeC†C-PNë PIC-PrPsP±C7P°P¶PµPSP° CΠPe:
PrCrP¶Pµ C†P°C†C, Ps (≥ 1/10); C†P°C†C, Ps (PIC-Pr ≥ 1/100 PrPs < 1/10); PSPµC†P°C†C, Ps
(PIC-Pr ≥ 1/1000 PrPs < 1/100); C7C-PrPePs (PIC-Pr ≥ 1/10 000 PrPs < 1/1000); PrCrP¶Pµ
C7C-PrPePs (< 1/10 000); PSPµPIC-PrPsPjPs (C†P°C†C, PsC, Cr PSPµ PjPsP¶PSP°
PIC†C, P°PSPsPIPëC, Pë P·P° PSP°CΠPIPSPëPjPë PrP°PSPëPjPë).

P†PSC,, PµPeC†C-C— C, P° C-PSPIP°P·C-C—. P7P°C†C, Ps: C,, P°C7PëPSPiC-C,,; PSPµC†P°C†C, Ps:
C-PSC,, PµPeC†C-C— PIPµC7C... PSC-C... PrPëC... P°P»CHPsPëC... CëP»CΠC... C-PI, C7PëPSC-C,,;
C7C-PrPePs: PrPëPIPµC7C, PëPeC†P»C-C,, PiP°C†C, C7PsPµPSC, PµC7PëC,, C†PµC7PµPrPSC-PNë
PsC, PëC,,.

PµC¿C... P»PëPSPë PrPsP±C7PsCΠPeC-C†PSC- C, P° P·P»PsCΠPeC-C†PSC- (C¿ C, PsPjC¿
C†PëC†P»C- PeC-C†C, Pë C, P° PiPsP»C-PiPë). P C-PrPePs: PSPsPIPsCrC, PIPsC7PµPSPSCΠ
(PiPsPIC-PrPsPjP»CΠP»PsC†CΠ PiC7Ps PsPrPëPS PIPëPiP°PrPsPe PSPsPIPsCrC, PIPsC7PµPSPSCΠ
PI PsPrPSPsPiPs PiP°C†C-C" PSC, P°, CΠPePëPNë PsC, C7PëPjCrPIP°PI C†PµC7C, C7P°P»C-PS,
PiPsC7C-PIPSCΠPSPs P· PIC-PrC†CrC, PSC-C†C, C7 C, P°PePëC... PIPëPiP°PrPeC-PI Cr
PiC7C†PiC- PiP°C†C-C" PSC, C-PI, CΠPeC- PsC, C7PëPjCrPIP°P»Pë PiP»P°C†PµP±Ps).

P— P±PsPeC¿ C†PëC†C, PµPjPë PeC7PsPIC- C, P° P»C-PjC,, P°C, PëC†PSPsC— C†PëC†C, PµPjPë.
P C-PrPePs: P»C-PjC,, P°PrPµPSPsPiP°C, C-CΠ; PSPµPIC-PrPsPjPs:
P»PµPNëPePsPiPµPSC-CΠ, C, C7PsPjP±PsC†PëC, PsPiPµPSC-CΠ.

P— P±PsPeC¿ C-PjC¿PSPSPsC— C†PëC†C, PµPjPë. PkPµC†P°C†C, Ps: PiC-PrPIPëC%oPµPSP°
C†CrC, P»PëPIC-C†C, CH; C7C-PrPePs: P°PSP°C,, C-P»P°PeC, PsC—PrPSP° C7PµP°PeC†C-CΠ;
PSPµPIC-PrPsPjPs: P°P»PµC7PiC-CΠ.

P— P±PsPeC¿ PµPSPPrPsPeC7PëPSPSPsC— C†PëC†C, PµPjPë. PkPµC†P°C†C, Ps:
PiC-PiPsC, PëC7PµPsP·; PSPµPIC-PrPsPjPs: PiC-PiPµC7PiC7PsP»P°PeC, PëPSPµPjC-CΠ,
C†PëPSPPrC7PsPj PSPµP°PrPµPePIP°C, PSPsC— C†PµPeC7PµC†C-C—
P°PSC, PëPrC-C†C7PµC, PëC†PSPsPiPs PiPsC7PjPsPSC†.

P7PµC, P°P±PsP»C-C†PSC- C, P° P°P»C-PjPµPSC, P°C7PSC- C7PsP·P»P°PrPë. P7P°C†C, Ps:
P·PSPëP¶PµPSPSCΠ P°PiPµC, PëC, Cr, PiPsC†PëP»PµPSPSCΠ P°PiPµC, PëC, Cr*;
C7C-PrPePs: C†CrPeC7PsPIPëPNë PrC-P°P±PµC,,
PiC-PiPµC7C... PsP»PµC†C, PµC7PëPSPµPjC-CΠ, PiC-PiPsPiP»C-PePµPjC-CΠ;
PSPµPIC-PrPsPjPs: PiC-PiPsPSP°C, C7C-C" PjC-CΠ, PiC-PiPµC7PiP»C-PePµPjC-CΠ.

PµC†PëC... C-C†PSC- PiPsC7C¿CëPµPSPSCΠ. P"CrP¶Pµ C†P°C†C, Ps: P±PµP·C†PsPSPSCΠ (19 %);
C†P°C†C, Ps: PrPµPiC7PµC†C-CΠ*, PrPµPiPµC7C†PsPSP°P»C-P·P°C†C-CΠ, PSC-C†PSC-
P¶P°C... Pë, PIC-PrC†CrC, C, CΠ C, C7PëPIP¶PSPsC†C, C-*, P·P±CrPrP¶PµPSPSCΠ*,
PSPµC7PIP¶PSC-C†C, CH, P·PSPëP¶PµPSPSCΠ P»C-P±C-PrPs*, P±C7C†PeC†PëP·Pj;
PSPµC†P°C†C, Ps: PiP°P»C7C†PëPSP°C†C-C—*, P°PiC7PµC†C-CΠ*, PµPNëC,, PsC7PëC†PSPëPNë
PSP°C†C, C7C-PNë*, P°PiP°C, C-CΠ, PiP°C, PsP»PsPiC-C†PSPµ PjPëC†P»PµPSPSCΠ; C7C-PrPePs:
PePsPSPiPµC7C†C-PNëPSPëPNë C7PsP·P»P°Pr, P·P°P»PµP¶PSC-C†C, CH PIC-Pr P»C-PeC-PI,

РіСІР'єС...PsC,Р'єС±PSP'єPNє СґPsP·P»P°Pr*, P'P°СґP°PSPsPNєCІ, СІСрС—С†P'єPrP°P»СґPSPμ PjP'єСІР»PμPSPSCІ/СІСрС—С†P'єPrP°P»СґPSP° P'PsPIPμPrC-PSPeP° (P»P'єC'єPμ PrP»CІ P'P°C†C-C"psc,c-pi P· P'P'P'P , P'СґP'є P'ePsСґPsC,P'ePsC±P°СІPSPsPjC P·P°СІС,P'sCІСрPIP°PSPSC- P'СґPμP'P'°СґP°C,Ср, Ср PrPsСІР»C-PrP'PμPSPSCІC... C,СґP'єPIP°P»C-СІС,Сґ 1-12 C,P'єP'PSC-PI: P±C'P»P'є P·P°СґPμC"СІС,СґPsPIP°PSC- PIP'єP'P°PrP'eP'є PSP°CІPIPSPsCІС,C- СІСрС—С†P'єPrP°P»СґPSP'єС... PrC'PjPsP'e C- СІСрС—С†P'єPrP°P»СґPSPsC— P'PsPIPμPrC-PSPeP'є P'C-Pr C±P°СІ C,PμСґP°P'ic-C— СІPμСґC,СґP°P»C-PSPsPj P°P±Ps PSPμPIP'PsPIP·C- P'ic-СІР»CІ P'СґP'єP'P'єPSPμPSPSCІ C,PμСґP°P'ic-C— (PrP'єPI. СґPsP·PrC-P» B«P'СІP'sP±P»P'єPIP'sCІС,C- P·P°СІС,P'sCІСрPIP°PSPSCІB»)), СІP'sPjPSP°PjP±C'P»C-P·Pj, P'PμСґPμPrC±P°СІPSP° PμCІP'eC'P»CІC†C-CІ; PSPμPIC-PrPsPjPs: P'P°СґPsPSC-СґC-CІ.

P— P±PsPeCá PSPμСґPIP'sPIP'sC— СІP'єСІС,PμPjP'є. P"СрP'Pμ C±P°СІС,P's:
P·P°P'P°PjPsСґPsC±PμPSPSCІ (11 %), СІP'sPSP»P'єPIC-СІС,Сґ (13 %), P'PsP»PsPIPSP'єPNє P±C-P»Сґ (21 %)*; C±P°СІС,P's: P'P°СґPμCІС,PμP·C-C—*, C,СґPμPjPsСґ, P'ic-P'PμСґC,P'sPSC'СІ, PrP'єСІP'PμPIP·C-CІ, P'PsСґC'єPμPSPSCІ C'P'P°P'P'є; PSPμC±P°СІС,P's: СІСрPrPsPjP'є*, PjP'єPjPsPIC-P»СґPSC- PjP'є™ CІP·PsPIC- СІP'ePsСґPsC±PμPSPSCІ*, P'PsСґC'єPμPSPSCІ P'ePsPsСґPrP'єPSP°C†C-C— СґC'С...C-PI, P'ic-P'PμСґP'eC-PSPμP·C-CІ, P°PjPSPμP·C-CІ, P'ic-P'PμCІС,PμP·C-CІ*, P'PsСґC'єPμPSPSCІ PjPsPIP»PμPSPSCІ, P'PsCІС,C'СґP°P»СґPSPμ P·P°P'P°PjPsСґPsC±PμPSPSCІ, СІP'єPSP'ePsP'Pμ, PjC-P'icСґPμPSCґ*; СґC-PrP'ePs: P'ePsPjP°*, C...PsСґPμPsP°C,PμC,P'sP·, PrP'єСІP'eC-PSPμP·C-CІ, P'ic-P'PμСґPμCІС,PμP·C-CІ, СІPμPSCІP'sСґPSC- P'PsСґC'єPμPSPSCІ; PSPμPIC-PrPsPjPs: СґC'С...PsPIC- СґPsP·P»P°PrP'є (PIP'eP»СґC±P°СґC±P'є PμP'eCІС,СґP°P'ic-СґP°PjC-PrPSC- СІP'єPjP'ic,P'sPjP'є, C,P°P'eC- CІP'e P'ic-P'PμСґP'eC-PSPμP·C-CІ, P'ic-P'PμСґC,P'sPSC'СІ, PrP'єСІС,P'sPSC-CІ, СІP'P'P°P·PjP'є C%PμP»PμP'P'є P°P±Ps P'PsСґC'єPμPSPSCІ C...PsPrP'є). P'P°P'ePsP'P P±C'P»P'є P·P°СґPμC"СІС,СґPsPIP°PSC- P'sP·PSP°P'eP'є C- СІP'єPjP'ic,P'sPjP'є СІPμСґPsC,P'sPSC-PSPsPIP'sP'Ps СІP'єPSP'СґPsPjC' C±P'є P·P»P'sCІP'eC-СІPSPsP'Ps PSPμPNєСґPsP»PμP'ic,P'єC±PSPsP'Ps СІP'єPSP'СґPsPjC'р, Ср PrPμCІP'eP'єС... PIP'єP'P°PrP'eP°C... P'PsP'P'є™ CІP·P°PSP'єС... C-P· СІСрP'icC'С,PSC-Pj P'icСґP'єPNєPsPjPsPj СІPμСґPsC,P'sPSC-PSPμСґP'ic-C±PSP'єС... P·P°СІP'sP±C-PI, Ср C,P'sPjC' C±P'єСІР»C- P·P±C'P'P'PμPSPSCІ, СІP'P'»C'С,P°PSC-СІС,Сґ СІPIC-PrPsPjPsCІС,C-, P'PsCІP'єP»PμPSPμ P'PsC,P'sPIP'єPrC-P»PμPSPSCІ, PrC-P°СґPμCІ, P'ic-PrPIP'єC%PμPSPSCІ C,PμPjP'PμСґP°C,C'СґP'є C,C-P»P°, P°СґC,PμСґC-P°P»СґPSP° P'ic-P'PμСґC,PμPSP·C-CІ, СґP'єP'ic-PrPSC-СІС,Сґ C,P° C,P°C...C-PeP°СґPrC-CІ. P'P'eP°C,P'єP·C-CІ C- P'icCІP'єС...PsPjPsC,P'sСґPSPμ P·P±C'P'P'PμPSPSCІ (PrP'єPI. СґPsP·PrC-P» B«P'СІP'sP±P»P'єPIP'sCІС,C- P·P°СІС,P'sCІСрPIP°PSPSCІB»). P'P'P'P°P·Pj C†PμСґPμP±СґP°P»СґPSP'єС... СІСрPrP'єPS (C' C,P'sPjC' C±P'єСІР»C- СІP'єPSP'СґPsPj СІP'ePsСґPsPjP'єPSC'С%P'sC— C†PμСґPμP±СґP°P»СґPSPsC— PIP°P·PsP'ePsPSCІС,СґP'єP'eC†C-C— C,P° СІP'єPSP'СґPsPj P'P'sP»P»P°P'єP"αP»PμPjC-PSP'P°).

PμPsСґC'єC'єPμPSPSCІ P· P±PsPeCá PsСґP'P'P°PSC-PI P·PsСґC'є. P§P°СІС,P's:
P'PsСґC'єPμPSPSCІ P·PsСґC'є; PSPμC±P°СІС,P's: PjC-PrСґC-P°P°*; СґC-PrP'ePs: P'P»P°C'P'ePsPjP°, СґPsP·P»P°PrP'є СІР»СґPsP·PsPIP'єPrC-P»PμPSPSCІ, СІP'ePsC,P'sPjP°, PrP'єP'P»P'sP'ic-CІ, C,,PsC,P'sC,,PsP±C-CІ, P'ic-C,,PμPjP°; PSPμPIC-PrPsPjPs: СґPsP·P»P°PrP'є P·PsСґC'є, P·C-PSP'єC†C- СґC-P·PSPsP'Ps СґPsP·PjC-СґC'є, PjP°P'eC'P»P'sP'P°C,C-C—.

PμPsСґC'єC'єPμPSPSCІ P· P±PsPeCá PsСґP'P'P°PSC-PI СІP»C'єС...C'є C,P° СґC-PIPSPsPIP°P'P'є. P§P°СІС,P's: PrP·PIC-PS C' PIC'С...P°C...*; PSPμC±P°СІС,P's: P±C-P»Сґ C' PIC'СІС.

PμPsСґC'єC'єPμPSPSCІ P· P±PsPeCá СІPμСґC†CІ. P§P°СІС,P's: PIC-PrC±C'С,C,CІ СІPμСґC†PμP±P'єC,C,CІ*); PSPμC±P°СІС,P's: C,P°C...C-PeP°СґPrC-CІ; СґC-PrP'ePs:

C-PSC,,P°CḡPeC, PjC-PsPeP°CḡPrP°, P±CḡP°PrPëPeP°CḡPrC-Cḡ, PìPsCḡCíCεPμPSPSCḡ
CḡPμCḡC+PμPIP°S-C- PrC-CḡP»CḡPSPsCḡC,C-; PSPμPIC-PrPsPjPs: PìPsPrPsPIP°PμPSPSCḡ
C-PSC,PμCḡPIP°P»Cḡ QTC, CεP»CḡPSPsCḡPεPsPIP° C,P°C...C-PeP°CḡPrC-Cḡ C,PëPìCḡ
B«PìC-CḡCḡPμC,B».

PμPsCḡCáCεPμPSPSCḡ P· P±PsPeCá CḡCáPrPëPS. P§P°CḡC,Ps: PìCḡPëPìP»PëPIPë;
PSPμCḡP°CḡC,Ps: P°CḡC,PμCḡC-P°P»CḡPSP° PìC-PìPμCḡC,PμPSP·C-Cḡ*, PìC-PìPμCḡPμPjC-Cḡ;
CḡC-PrPePs: PìPμCḡPëC,,PμCḡPëCḡPSP° C-CεPμPjC-Cḡ, PìPμPjP°C,CḡCḡC-Cḡ;
PSPμPIC-PrPsPjPs: PìP°C,PsP»PsPìC-CḡPSC- PìPμPjPsCḡP°PìC-CḡPSC- CḡPIPëC%P° (C,P°PeC-
CḡPe, CεP»CḡPSPePsPIPs-PePëCεPePsPIP° PeCḡPsPIPsC,PμCḡP°).*

*PμPsCḡCáCεPμPSPSCḡ P· P±PsPeCá CḡPμCḡPìC-CḡP°C,PsCḡPSPsC— CḡPëCḡC,PμPjPë,
PìCḡCáPrPSPsC— PeP»C-C,PePë C,P° CḡPμCḡPμPrPsCḡC,C-PSPSCḡ. P§P°CḡC,Ps:
PìPsP·C-C...P°PSPSCḡ*; PSPμCḡP°CḡC,Ps: P±CḡPsPSC...PsCḡPìP°P·Pj*, PrPëCḡPìPSPsPμ,
PSPsCḡPsPIP° PeCḡPsPIPsC,PμCḡP°; CḡC-PrPePs: P»P°CḡPëPSPiPsCḡPìP°P·Pj,
PìC-PìPμCḡPIPμPSC,PëP»CḡCḡC-Cḡ, PìC-PìPsPIPμPSC,PëP»CḡCḡC-Cḡ, CḡC,CḡPëPrPsCḡ,
PrPëCḡC,,PsPSC-Cḡ, PìPëPeP°PIP°P; PSPμPIC-PrPsPjPs: C-PSC,PμCḡCḡC,PëCḡC-P°P»CḡPSPμ
P·P°C...PIPsCḡCḡPIP°PSPSCḡ P»PμPìPμPSC-PI.*

*PμPsCḡCáCεPμPSPSCḡ P· P±PsPeCá CεP»CáPSPePsPIPs-PePëCεPePsPIPsPìPs C,CḡP°PeC,Cá.
P°CḡP»Pμ CḡP°CḡC,Ps: PrC-P°CḡPμCḡ (18 %), PSCḡPrPsC,P° (24 %), CḡCḡC...C-CḡC,Cḡ Cḡ
CḡPsC,C- (14 %); CḡP°CḡC,Ps: P±C-P»Cḡ Cḡ P»PëPIPsC,C-*, P±P»CḡPIP°PSPSCḡ*, P·P°PìPsCḡ*,
PrPëCḡPìPμPìCḡC-Cḡ, PjPμC,PμPsCḡPëP·Pj; PSPμCḡP°CḡC,Ps: PμP·PsC,,P°PìC-C,,
PrPëCḡC,,P°PìC-Cḡ, PìPμPjPsCḡPsPñ, PìC-PìPμCḡCḡP°P»C-PIP°CḡC-Cḡ, P·PjC-PSPë CḡP·PëPeP°,
PIC-PrCḡPëP»PeP°; CḡC-PrPePs: PjPμP»PμPSP°, PìPμPjP°C,PsC...PμP·C-Cḡ, CḡC,PsPjP°C,PëC,,
PIPëCḡP°P·PePë PSP° CḡP·PëCḡC-, PìP°C,PsP»PsPìC-C— P· P±PsPeCḡ P·CḡP±C-PI, PìP»PsCḡPëC,,
PIPëCḡP°P·PePë PSP° CḡP»PëP·PsPIC-Pñ PsP±PsP»PsPSCḡC- CḡPsC,P°; PSPμPIC-PrPsPjPs:
PìP°PSPeCḡPμP°C,PëC,, PjC-PeCḡPsCḡPePsPìC-CḡPSPëPñ PePsP»C-C,,*

*PμPsCḡCáCεPμPSPSCḡ P· P±PsPeCá PìPμPìP°C,PsP±C-P»C-P°CḡPSPsC— CḡPëCḡC,PμPjPë.
P C-PrPePs: PìPsCḡCíCεPμPSPSCḡ C,,CḡPSPeCḡC-C— PìPμCḡC-PSPePë; PSPμPIC-PrPsPjPs:B
PìPsCḡCíCεPμPSPSCḡ C,,CḡPSPeCḡC-C— PìPμCḡC-PSPePë C,CḡP»PePsPìPs CḡC,CḡPìPμPSCḡ
(PIPëP»CḡCḡP°CḡCḡPë PìPμPìP°C,PëC,, P»PsPIC,CḡPSPëCḡCḡ C,P° PìPμCḡC-PSPePsPICḡ
PSPμPrPsCḡC,P°C,PSC-CḡC,Cḡ).*

*PμPsCḡCáCεPμPSPSCḡ P· P±PsPeCá CεPeC-CḡPë C,P° PìC-PrCεPeC-CḡPSPsC—
PeP»C-C,PePsPIPëPSPë. P§P°CḡC,Ps: PIPëCḡPëPìP°PSPSCḡ*, PìC-PìPμCḡPìC-PrCḡPsP·;
PSPμCḡP°CḡC,Ps: PìPμCḡC-PsCḡP±C-C,P°P»CḡPSPëPñ PSP°P±CḡCḡPε*, PSP°P±CḡCḡPε
PsP±P»PëCḡCḡCḡ, PìCḡCḡPìCḡCḡP°*, P°P»PsPìPμCḡC-Cḡ*, C...PsP»PsPrPSPëPñ PìC-C,,
CḡCḡC...C-CḡC,Cḡ CεPeC-CḡPë, PeCḡPsPìPëIbḡ™ CḡPSPeP°*, CḡPìPμCḡP±C-P»ḡ; CḡC-PrPePs:
PrPμCḡPjP°C,PëC,, P±CḡP»CḡPsP·PSPëPñ PrPμCḡPjP°C,PëC,, PIPμP·PëPeCḡP»CḡPsP·PSPμ
PIPëCḡPëPìP°PSPSCḡ, PìP°C,PsP»PsPìC-CḡPSC- P·PjC-PSPë P· P±PsPeCḡ C,PμPeCḡC,CḡCḡPë
PIPsP»PsCḡCḡCḡ, PSPμC,PëPìPsPIPëPñ P·P°PìP°C... CεPeC-CḡPë; PSPμPIC-PrPsPjPs:
P·P°CḡPμCḡCḡC,CḡPsPIP°PSC- CḡC-PrPeC-CḡPSC- PIPëPìP°PrPePë C,CḡP»PePëC...
PìPsP±C-CḡPSPëC... CḡPμP°PeCḡC-Pñ P· P±PsPeCḡ CεPeC-CḡPë, C,P°PePëC... CḡPe
CḡPëPSPrCḡPsPj PḡC,C-PIPμPSCḡP°ḡḡP°P»P»PsPSCḡPsPSP° C,P° C,PsPeCḡPëCḡPSPëPñ
PμPìC-PrPμCḡPjP°P»CḡPSPëPñ PSPμPeCḡPsP»C-P·, P°PSPiC-PsPSPμPICḡPsC,PëCḡPSPëPñ
PSP°P±CḡCḡPε, CḡPμP°PeCḡC-C— C,,PsC,PsCḡCḡC,P»PëPIPsCḡC,C-, CεPeC-CḡPSC-
CḡPμP°PeCḡC-C—.*

*PμPsCḡCáCεPμPSPSCḡ P· P±PsPeCá PsPìPsCḡPSPs-CḡCáC...PsPIPsC— CḡPëCḡC,PμPjPë C,P°
CḡPìPsP»CḡCḡPSPsC— C,PeP°PSPëPSPë. P§P°CḡC,Ps: P°CḡC,CḡP°P»PìC-Cḡ,*

PjC-P°P»PiC-CI; PSPμC±P°CÍC,Ps: PsCÍC,PμPsP°CĤC,CĤPëC,, PjBĤ™ CIIP·PsPIP°
CÍP»P°P±PeC-CÍC,CH, P±C-P»CH CÍ CÍPíPëPSC-, PiPsCÍPjPëPeCíPIP°PSPSCII
PjBĤ™ CIIP·C-PI; CĤC-PrPePs: CÍCĤP°P¶PμPSPSCII PeC-CÍC,PsPe; PSPμPIC-PrPsPjPs:
PjBĤ™ CIIP·PsPIC- CÍPíP°P·PjPë, PiPsCĤCíC€PμPSPSCII, PiPsPrC-P±PSPμ PrPs
PrPμC,,C-C†PëC,Cí PjPSPsP¶PëPSPSPëC... P°C†PëP»-PŁPsPĥ PrPμPiC-PrCĤPsPiPμPSP°P.
(PĥPĥP''P'')*.

PμPsCĤCáC€PμPSPSCII P· P±PsPeCá PSPëCĤPsPe C,P° CÍPμC±PsPIPëPrC-P»CHPSPsC—
CÍPëCÍC,PμPjPë. PkPμC±P°CÍC,Ps: PSC-PeC,CÍCĤC-CI, P·P°C,CĤPëPjPeP° CÍPμC±C-*,
PiPsP»C-CÍCĤC-CI, PiPsP»P°PeC-CÍCĤC-CI, PiPsCĤCíC€PμPSPSCII
CÍPμC±PsPIPëPíCíCÍP°PSPSCII, PSPμC,CĤPëPjP°PSPSCII CÍPμC±C-*, CĤC-PrPePs:
PsP»C-PiCíCĤC-CI, CÍC,CĤCíCíPrPSPμPSPëPñ PiPsC±P°C,PsPe CÍPμC±PsPIPëPíCíCÍP°PSPSCII.

PμPsCĤCáC€PμPSPSCII P· P±PsPeCá CĤPμPíCĤPsPrCáPeC,PëPIPSPsC— CÍPëCÍC,PμPjPë C,P°
PjPsP»PSC±PSPëC... P·P°P»PsP.**. P''CíP¶Pμ C±P°CÍC,Ps: PiPsCĤCíC€PμPSPSCII
PμCIIPeCíP»CIIC†C-C— (14 %); C±P°CÍC,Ps: PμCĤPμPeC,PëP»CHPSP°
PrPëCÍC,,CíPSPeC†C-CI; PSPμC±P°CÍC,Ps: PIP°PiC-PSP°P»CHPSP°
PeCĤPsPIPsC,PμC±P°, CÍC,P°C,PμPIP° PrPëCÍC,,CíPSPeC†C-CI, CÍC,P°C,PμPIP°
PrPëCÍC,,CíPSPeC†C-CI CÍ P¶C-PSPsPe, PSPμCĤPμPiCíP»CIICĤPSPëPñ
PjPμPSCÍC,CĤCíP°P»CHPSPëPñ C†PëPeP»; CĤC-PrPePs: PjPμPSPsCĤP°PiC-CI,
P°C,CĤPsC,,C-C±PSPëPñ PICíP»CHPIPSPiP°PiC-PSC-C,, P±P°P»P°PSPsPiPsCÍC,PëC,,
PIPëPrC-P»PμPSPSCII P·C- CÍC,P°C,PμPIPëC... PsCĤPiP°PSC-PI, PiCĤC-P°PiC-P·Pj*,
PiP°P»P°PeC,PsCĤPμCI*); PSPμPIC-PrPsPjPs: PiC-PSPμPePsPjP°CÍC,C-CI,
PiC-CÍP»CIIPiPsP»PsPiPsPIC- PeCĤPsPIPsC,PμC±C-***.

P—P°PiP°P»CHPSC- PiPsCĤCáC€PμPSPSCII C,P° CĤPμP°PeC†C-C— Cá PjC-CÍC†C-
PIPIPμPrPμPSPSCII. P''CíP¶Pμ C±P°CÍC,Ps: PiC-PrPIPëC%oPμPSP°
PIC,PsPjP»CĤPIP°PSC-CÍC,CH (10 %)*; C±P°CÍC,Ps: P±C-P»CH CÍ PiCĤCíCíPrPSC-Pñ
PeP»C-C,C†C-*, P·P°PiP°P»CHPSPμ PSPμP·PrCíP¶P°PSPSCII*); PSPμC±P°CÍC,Ps:
PiPμCĤPëC,,PμCĤPëC±PSPëPñ PSP°P±CĤCIIPe, PsP·PSPsP±, PiC-CĤPμPeCÍC-CI*,
P°CÍC,PμPSC-CI*, CÍPiCĤP°PiP°; CĤC-PrPePs: PiCĤPëP¶P°, P·PSPëP¶PμPSPSCII
PiPμCĤPμPSPsCÍPëPjPsCÍC,C- PiCĤPμPiP°CĤP°C,Cí, PiPsCĤCíC€PμPSPSCII C...PsPrPë.

P''PsCÍP»C-PrP¶PμPSPSCII. PkPμC±P°CÍC,Ps: PiC-PrPIPëC%oPμPSPSCII CĤC-PIPSCI
P°P»P°PSC-PSP°PjC-PSPsC,CĤP°CÍC,,PμCĤP°P·Pë*, PiC-PrPIPëC%oPμPSPSCII CĤC-PIPSCI
P°CÍPíP°CĤC,P°C,P°PjC-PSPsC,CĤP°PSCÍC,,PμCĤP°P·Pë*, P·PSPëP¶PμPSPSCII PjP°CÍPë
C,C-P»P*, P·P±C-P»CHC€PμPSPSCII PjP°CÍPë C,C-P»P*; CĤC-PrPePs: PiPsCĤCíC€PμPSPSCII
CIIPePsCÍC,C- CÍPiPμCĤPjPë; PiC-PrPIPëC%oPμPSPSCII CĤC-PIPSCI
C...PsP»PμCÍC,PμCĤPëPSCí PI PeCĤPsPIC-; PSPμPIC-PrPsPjPs: PIC-PrC...PëP»PμPSPSCII PIC-Pr
PSPsCĤPjPë CĤPμP·CíP»CHC,P°C,C-PI PeP»C-PSC-C±PSPëC... P»P°P±PsCĤP°C,PsCĤPSPëC...
P°PSP°P»C-P·C-PI, P·PjC-PSP° C,,CíPSPeC†C-C— C,CĤPsPjP±PsC†PëC,C-PI.

PÿCĤP°PIPjPë C,P° PsC,CĤCáC''PSPSCII. P C-PrPePs: C,CĤP°PIPjP°.

PÍC-CĤCáCĤPiC-C±PSC- PIC,CĤCáC±P°PSPSCII C,P° PjPμPrPëC±PSC- PiCĤPsC†PμPrCáCĤPë.
P C-PrPePs: PIP°P·PsPrPëP»P°C,P°C†C-CI.

PİPeC%oPs PiPsP±C-C±PSPμ CIIPiPëC%oPμ CÍPiPsCÍC,PμCĤC-PiP°P»PsCÍCI CÍ
PiP°C†C-C''PSC,C-PI P· PrPμPiCĤPμCÍC-C''Cĥ, PĥPŁP, PiP°PSC-C±PSPëPj CĤPsP·P»P°PrPsPj,
PμPÿPÿP C- CÍPsC†C-P°P»CHPSPëPj C,CĤPëPIPSP¶PSPëPj CĤPsP·P»P°PrPsPj,

P·P°CÍC,PsCÍPsPICfPIP°PSC- C,PμCḡPjC-PSPë, C%Ps C...P°CḡP°PeC,PμCḡPëP·CfCḡC,CH
PİPsP±C-C±PSC- CıPIPëC%P°, PİPμCḡPμPeP»P°CÍPëC,,C-PePsPIP°PSC- P·P°
C,PμCḡPjC-PSP°PjPë, C%Ps P·P°CÍC,PsCÍPsPICfPIP°P»PëCÍCı CÍC,PsCÍPsPIPSPs
PİP°C†C-C”PSC,C-PI P· PrPμPİCḡPμCÍC-C”Cḡ.

*B B B B B B B B PİPsP±C-C±PSC- CḡPμP°PeC†C-C—,C%Ps PIPëCıPIP»PμPSP° CÍ
PİC-CÍP»CıCḡPμC”CÍC,CḡP°C†C-PNëPSPëPNë PİPμCḡC-PsPr.

**B B B B B B B C±P°CÍC,PsC,P° C†PëC... PİPsP±C-C±PSPëC... CḡPμP°PeC†C-PNë
PIPëP·PSP°C±P°P»P°CÍCı PrP»Cı PeC-P»CHPePsCÍC,C- PİP°C†C-C”PSC,C-PI CÍ
PePsPSPeCḡPμC,PSC-PNë PİCḡCÍPİC- P·P° CÍC,P°C,C,Cḡ: CÍPμCḡC,CḡP°P»C-PS (1118
C±PsP»PsPIC-PeC-PI, 1424 P¶C-PSPePë), PİP»P°C†PμP±Ps (926 C±PsP»PsPIC-PeC-PI, 1219
P¶C-PSPsPe).

***C†PμPNë PİCḡPsCıPI P·P°CḡPμC”CÍC,CḡPsPIP°PSPëPNë PrP»Cı
C,PμCḡP°PİPμPIC,PëC±PSPsPİPs PeP»P°CÍCÍ SSRI/SNRI (PrPëPI. CḡPsP·PrC-P»Pë
B«PsCÍPsP±P»PëPIPSCÍC,C- P·P°CÍC,PsCÍCfPIP°PSPSCıB», B«P·P°CÍC,PsCÍCfPIP°PSPSCı CÍ
PİPμCḡC-PsPr PIP°PİC-C,PSPsCÍC,C- C,P° PİPsPrCfPIP°PSPSCı PİCḡCÍPrPrCḡB»).

*PÿPëPSPPrCḡPsPjPë PIC-PrPjC-PSPë, C%Ps CÍPİPsCÍC,PμCḡC-PİP°CḡC,CHCÍCı PİCḡPë
PİCḡPëPİPëPSPμPSPSC- C,PμCḡP°PİC-C— CÍPμCḡC,CḡP°P»C-PSPsPj*

PμCḡPëPİPëPSPμPSPSCı C,PμCḡP°PİC-C— CÍPμCḡC,CḡP°P»C-PSPsPj
(PsCÍPsP±P»PëPIPs CÍ PIPëPİP°PrPeCÍ CḡC-P·PePsPİPs PİCḡPëPİPëPSPμPSPSCı
C,PμCḡP°PİC-C—) P·P°P·PIPëC±P°PNë PİCḡPëP·PIPPrPëC,CH PrPs CḡPsP·PIPëC,PeCÍ
CÍPëPjPİC,PsPjC-PI PIC-PrPjC-PSPë. PkP°PNëC±P°CÍC,C-CεPμ
PİPsPIC-PrPsPjP»CıP»PsCÍCı PİCḡPs C,P°PeC- PİPsP±C-C±PSC- CıPIPëC%P° CıPe
P·P°PİP°PjPsCḡPsC±PμPSPSCı, CÍPμPSCÍPsCḡPSC- PİPsCḡCÍCεPμPSPSCı
(PIPeP»CḡC±P°CḡC±Pë PİP°CḡPμCÍC,PμP·C-Cḡ), PİPsCḡCÍCεPμPSPSCı CÍPSCÍ
(PIPeP»CḡC±P°CḡC±Pë P±PμP·CÍPsPSPSCı C- CıCÍPeCḡP°PIC-
CÍPSPsPIPëPrC-PSPSCı), P·P±CÍPrP¶PμPSPSCı P°P±Ps PIC-PrC±CÍC,C,Cı
C,CḡPëPIPİPİPë, PSCÍPrPsC,P° C,P°/P°P±Ps P±P»CḡPIP°PSPSCı, C,CḡPμPjPsCḡ C-
PİPsP»PsPIPSPëPNë P±C-P»CH. PİPe PİCḡP°PIPëP»Ps, C†C- PİPsP±C-C±PSC-
CıPIPëC%P° P±CÍP»Pë P»PμPİPePsPİPs P°P±Ps PİPsPjC-CḡPSPsPİPs CÍC,CÍPİPμPSCı
C,P° PjPëPSP°P»Pë CÍP°PjPsCÍC,C-PNëPSPs; PsPrPSP°Pe CÍ PrPμCıPePëC...
PİP°C†C-C”PSC,C-PI PIPsPSPë PjPsP¶CÍC,CH P±CÍC,Pë C,CıP¶PePëPjPë C,P°/P°P±Ps
C,CḡPëPIP°P»PëPjPë. Pj P·PİBḡ™ CıP·PeCÍ P· C†PëPj CÍ PIPëPİP°PrPeP°C..., PePsP»Pë
P±C-P»CHCεPμ PSPμPjP°C” PSPμPsP±C...C-PrPSPsCÍC,C- CÍ C,PμCḡP°PİC-C—
CÍPμCḡC,CḡP°P»C-PSPsPj, CḡPμPePsPjPμPSPPrCÍC”C,CHCÍCı PİPsCÍC,CÍPİPsPIP°
PIC-PrPjC-PSP° PİCḡPμPİP°CḡP°C,CÍ CεP»CıC...PsPj PİPsPμC,P°PİPSPsPİPs
P·PSPëP¶PμPSPSCı PrPsP·Pë (PrPëPI. CḡPsP·PrC-P»Pë B«PÿPİPsCÍC-P±
P·P°CÍC,PsCÍCfPIP°PSPSCı C,P° PrPsP·PëB» C,P° B«PḡCÍPsP±P»PëPIPSCÍC,C-
P·P°CÍC,PsCÍCfPIP°PSPSCıB»).

P—P°CÍC,PsCÍCfPIP°PSPSCı PİP°C†C-C”PSC,P°Pj P»C-C,PSCHPsPİPs PIC-PeCé

P—P°CÍC,PsCÍCfPIP°PSPSCı CÍPμP»PμPeC,PëPIPSPëC... C-PSPİC-P±C-C,PsCḡC-PI
P·PIPSCḡPsC,PSPsPİPs P·P°C...PsPİP»PμPSPSCı CÍPμCḡPsC,PsPSC-PSCÍ (PÿP†P—P—Pÿ) P°P±Ps
C-PSPİC-P±C-C,PsCḡP°PjPë P·PIPSCḡPsC,PSPsPİPs P·P°C...PsPİP»PμPSPSCı
PSPsCḡP°PrCḡPμPSP°P»C-PSCÍ C- CÍPμCḡPsC,PsPSC-PSCÍ (P†P—P—PkPÿ),

PIPeP»CĤC±P°CĤC±Pë CÍPµCĤC,CĤP°P»C-PS, P°CÍPsC†C-CĤPIP°P»PsCÍCĬ P·
PeP»C-PSC-C±PSPs P·PSP°C±CÍC%PëPjPë PIPëPiP°PrPeP°PjPë PiC-PiPsPSP°C,CĤC-C”PjC-C— CÍ
PiP°C†C-C”PSC,C-PI P»C-C,PSCĤPsPiPs PIC-PeCÍ, PI CĬPePëC... PjPsP¶Pµ
CÍPiPsCÍC,PµCĤC-PiP°C,PëCÍCĬ PiC-PrPIPëC%PµPSPëPñ CĤPëP·PëPe CĤPsP·PIPëC,PeCÍ
C†CĤPsPiPs PiPsP±C-C±PSPsPiPs CĬPIPëC%P° (PrPëPI. CĤPsP·PrC-P»
B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCÍPIP°PSPSCĬB»).

P—P°CÍC,PsCÍC±PIP°PSPSCĬ PrC-C,CĬPj

PJ PiPsPSP°Pr 600 PrC-C,PµPñ, CĬPeC- PsC,CĤPëPjCÍPIP°P»Pë CÍPµCĤC,CĤP°P»C-PS,
P·P°PiP°P»CĤPSPëPñ PiCĤPsC,,C-P»CĤ PiPsP±C-C±PSPëC... CĤPµP°PeC†C-Pñ P±CÍPI CÍ
C†C-P»PsPjCÍ PiPsPrC-P±PSPëPñ PrPs C,P°PePsPiPs, C%Ps CÍPiPsCÍC,PµCĤC-PiP°PICÍCĬ CÍ
PrPsCÍP»C-PrP¶PµPSPSCĬC... P· CÍC±P°CÍC,CĤ PrPsCĤPsCÍP»PëC... PiP°C†C-C”PSC,C-PI. PJ
C...PsPrC- PeP»C-PSC-C±PSPëC... PePsPSC,CĤPsP»CĤPsPIP°PSPëC... PrPsCÍP»C-PrP¶PµPSCĤ
P±CÍP»Pë P·P°CĤPµC”CÍC,CĤPsPIP°PSC- PSP°CÍC,CÍPiPSC- PiPsP±C-C±PSC- CĤPµP°PeC†C-C—
(PeC-P»CĤPeC-CÍC,CĤ PiP°C†C-C”PSC,C-PI, CĬPeC- PiCĤPëPñPjP°P»Pë
CÍPµCĤC,CĤP°P»C-PS, CÍC,P°PSPsPIPëP»P° 281):

PrCÍP¶Pµ C±P°CÍC,Ps (≥1/10): PiPsP»PsPIPSPëPñ P±C-P»CĤ (22 %), P±PµP·CÍPsPSPSCĬ (21
%), PrC-P°CĤPµCĬ (11 %) C- PSCÍPrPsC,P° (15 %). PŞP°CÍC,Ps: (PIC-Pr ≥1/100 PrPs <1/10):
P±C-P»CĤ CÍ PiCĤCÍPrPSC-Pñ PeP»C-C,C†C-, PjP°PSC-CĬ, PiC-CĤPµPeCÍC-CĬ,
P±P»CĤPIP°PSPSCĬ, PIC-PrCÍCÍC,PSC-CÍC,CĤ P°PiPµC,PëC,CÍ, P°C,,PµPeC,PëPIPSP°
P»P°P±C-P»CĤPSC-CÍC,CĤ, P°PiCĤPµCÍC-CĬ, P·P±CÍPrP¶PµPSPSCĬ,
PSPµCĤPIPsP·PSC-CÍC,CĤ, PiPsCĤCÍC€PµPSPSCĬ CÍPIP°PiPë, P·P°PiP°PjPsCĤPsC±PµPSPSCĬ,
PiC-PiPµCĤPeC-PSPµP·C-CĬ, PjC-PiCĤPµPSCĤ, CÍPsPSP»PëPIC-CÍC,CĤ, C,CĤPµPjPsCĤ,
PiPsCĤCÍC€PµPSPSCĬ P·PsCĤCÍ, CÍCÍC...C-CÍC,CĤ CÍ CĤPsC,C-, PrPëCÍPiPµPiCÍC-CĬ,
PSC-C±PSC- P¶P°C...Pë, PiC-PrPIPëC%PµPSP° PIC,PsPjP»CĤPIP°PSC-CÍC,CĤ,
PSPµC,CĤPëPjP°PSPSCĬ CÍPµC±C-, PIPëCÍPëPiP°PSPSCĬ, P°PePSPµ, PSPsCÍPsPIP°
PeCĤPsPIPsC,PµC±P°, PjPµC,PµPsCĤPëP·Pj. PkPµC±P°CÍC,Ps: (PIC-Pr ≥1/1000 PrPs <1/100):
PiPsPrPsPIP¶PµPSPSCĬ C-PSC,PµCĤPIP°P»CÍ QT PSP° P·P”P”, CÍCÍC—C†PëPrP°P»CĤPSC-
CÍPiCĤPsP±Pë, CÍCÍPrPsPjPë, PµPeCÍC,CĤP°PiC-CĤP°PjC-PrPSPëPñ CĤPsP·P»P°Pr,
PiP°CĤPµCÍC,PµP·C-CĬ, PrPµPiCĤPµCÍC-CĬ, PiP°P»CĤC†PëPSP°C†C-C—, PiCÍCĤPiCÍCĤP°,
PiC-PiPµCĤPIPµPSC,PëP»CĬC†C-CĬ, P°PSPµPjC-CĬ, PiPsCĤCÍC€PµPSPSCĬ C,,CÍPSPeC†C-Pñ
PiPµC±C-PSPePë, PiC-PrPIPëC%PµPSPSCĬ CĤC-PIPSCĬ
P°P»P°PSC-PSP°PjC-PSPsC,CĤP°PSCÍC,,PµCĤP°P·Pë, C†PëCÍC,PëC,, PiCĤPsCÍC,PëPñ
PiPµCĤPiPµCÍ, PsC,PëC, P·PsPIPSC-C€PSCĤPsPiPs PICÍC...P°, P±C-P»CĤ CÍ PICÍCÍC-,
P±C-P»CĤ PI PsC†C-, PjC-PrCĤC-P°P·, P·P°PiP°P»CĤPSPµ PSPµP·PrCÍP¶P°PSPSCĬ,
PiPµPjP°C,CÍCĤC-CĬ, PiCÍCÍC,CÍP»CĤPsP·PSPµ PIPëCÍPëPiP°PSPSCĬ, CĤPëPSC-C,,
C,CĤP°PIPjP°, P·PSPëP¶PµPSPSCĬ PjP°CÍPë C,C-P»P°, PiPsCÍPjPëPeCÍPIP°PSPSCĬ
PjP” CĬP·C-PI, PSPµP·PIPëC±P°PñPSC- CÍPSPsPIPëPrC-PSPSCĬ, P°PiP°C,C-CĬ,
P°P»CĤP±CÍPjC-PSCÍCĤC-CĬ, PiPsP»P°PeC-CÍCĤC-CĬ, PiPsP»C-CÍCĤC-CĬ, P±C-P»CĤ CÍ
PjPsP»PsC±PSPëC... P·P°P»PsP·P°C..., PiPsCĤCÍC€PµPSPSCĬ PjPµPSCÍC,CĤCÍP°P»CĤPSPsPiPs
C†PëPeP»CÍ, P°P»PsPiPµC†C-CĬ, PrPµCĤPjP°C,PëC,, CÍCĤP°P¶PµPSPSCĬ C€PeC-CĤPë,
PSPµC,PëPiPsPIPëPñ P·P°PiP°C... C€PeC-CĤPë, PeCĤPsPiPëPiP” CĬPSPeP°, P±CĤCÍPeCÍPëP·Pj,
PiC-PiPµCĤPµPjC-CĬ. PŞP°CÍC,PsC,P° PSPµPIC-PrPsPjP°: PµPSCÍCĤPµP·.

*P·C,,PµPeC,Pë, C...P°CĤP°PeC,PµCĤPSC- PrP»CĬ C†CĤPsPiPs PeP»P°CÍC±
P»C-PeP°CĤCÍCĤPePëC... P·P°CÍPsP±C-PI*

PJ CĤPµP·CÍP»CĤC,P°C,C- PiCĤPsPIPµPrPµPSPSCĬ PµPiC-PrPµPjC-PsP»PsPiC-C±PSPëC...
PrPsCÍP»C-PrP¶PµPSCĤ, C%Ps PiPµCĤPµPIP°P¶PSPs PiCĤPsPIPsPrPëP»Pë P· CÍC±P°CÍC,CĤ
PiP°C†C-C”PSC,C-PI PIC-PePsPj PIC-Pr 50 CĤPsPeC-PI C,P° CÍC,P°CĤC€Pµ, P±CÍPI

PIPëCÏPIP»PµPSPëPNë PïC-PrPIPëC%oPµPSPëPNë CÏPëP·PëPe PIPëPSPëPePSPµPSPSCÏ
PïPµCÏPµP»PsPjC-PI PeC-CÏC,PsPe Cr PïP°C†C-C''PSC,C-PI, CÏPeC- PsC,CÏPëPjCrPIP°P»Pë
PÏP†P—P—PÏ C,P° C,CÏPëC†PëPeP»C-C†PSC- P°PSC,PëPrPµPïCÏPµCÏP°PSC,Pë.
PµPµC...P°PSC-P·Pj, C%oPs P·CrPjPsPIP»CÏC'' PïC-PrPIPëC%oPµPSPSCÏ C†CHPsPiPs
CÏPëP·PëPeCr, PSPµPIC-PrPsPjPëPNë.

*PµPsPIC-PrPsPjP»PµPSPSCÏ PïCÏPs PïC-PrPsP·CÏCÏPIP°PSC- PïPsP±C-C†PSC-
CÏPµP°PeC†C-C—*

PµPsPIC-PrPsPjP»PµPSPSCÏ PïCÏPs PïC-PrPsP·CÏCÏPIP°PSC- PïPsP±C-C†PSC-
CÏPµP°PeC†C-C— Cr PïC-CÏP»CÏCÏPµC''CÏC,CÏP°C†C-PNëPSPëPNë PïPµCÏC-PsPr C''
PIP°P¶P»PëPIPëPj P·P°C...PsPrPsPj. PïPµ PrPsP·PIPsP»CÏC'' PïCÏPsPrPsPIP¶CrPIP°C,Pë
PjPsPSC-C,PsCÏPëPSPi CÏPïC-PIPIC-PrPSPs€PµPSPSCÏ PePsCÏPëCÏC,CÏ/CÏPëP·PëPe
PïCÏPë P·P°CÏC,PsCÏC†PIP°PSPSC- PïCÏPµPïP°CÏP°C,Cr. P>C-PeP°CÏCÏPj
PïCÏPsPïPsPSCrC''C,CÏCÏCÏ PïPsPIC-PrPsPjP»CÏC,Pë PïCÏPs P±CrPrCH-CÏPeC-
PïC-PrPsP·CÏCÏPIP°PSC- PïPsP±C-C†PSC- CÏPµP°PeC†C-C—.

PÏPµCÏPjC-PS PïCÏPëPrP°C,PSPsCÏC,C-. 3 CÏPsPePë.

PjPjPsPIPë P·P±PµCÏC-PiP°PSPSCÏ.

P—P±PµCÏC-PiP°C,Pë PI PsCÏPëPiC-PSP°P»CHPSC-PNë CrPïP°PePsPIC†C- PïCÏPë
C,PµPjPïPµCÏP°C,CrCÏC- PSPµ PIPëC%oPµ 25 B°PÏ Cr PSPµPrPsCÏC,CrPïPSPsPjCr PrP»CÏ
PrC-C,PµPNë PjC-CÏC†C-.

PjPïP°PePsPIPëP°.

14 C,P°P±P»PµC,oPe Cr P±P»C-CÏC,PµCÏPSC-PNë CrPïP°PePsPIC†C-; PïPs 2 P±P»C-CÏC,PµCÏPë
Cr PePsCÏPsP±C†C- P· PeP°CÏC,PsPSCr.

PµP°C,PµPiPsCÏC-CÏ PIC-PrPïCrCÏPeCr.B

P—P° CÏPµC†PµPiC,PsPj.

P'PëCÏPsP±PSPëPe.

PÏP°PS PµP°CÏPjP°CÏCHCÏC,PëPeP°P» P†PSPrP°CÏC,CÏC-P· P>C-PjC-C,PµPr/Sun
Pharmaceutical Industries Limited.

**PµC-CÏC†PµP·PSP°C...PsPrP¶PµPSPSCÏ PIPëCÏPsP±PSPëPeP° C,P° P°PrCÏPµCÏP°
PjC-CÏC†CÏ PïCÏPsPIP°PrP¶PµPSPSCÏ PNëPsPiPs PrC-CÏP»CHPSPsCÏC,C-.**

Plastic Pipe, PVC-Pipe» Polyethylene 3, PPEPIP - 455001, Plastic Pipe-Cl/

Industrial Area 3, Dewas, 455001, India.