

$$\begin{aligned} & \text{PhP} \gg \text{P}^\circ \text{PSP} \cdot \text{P}^\circ \text{P} \dot{\text{C}} - \text{PS} \text{ C}'' \text{ P}^\circ \text{PSC}, \text{P} \ddot{\text{P}} \dot{\text{P}} \dot{\text{C}} \dot{\text{P}} \ddot{\text{C}} \dots \text{PsC}, \text{P} \ddot{\text{C}} \ddagger \text{PSP} \ddot{\text{P}} \text{Pj}, \\ & \text{P}^\circ \text{PSC}, \text{P} \ddot{\text{P}} \text{Pj} \text{P}^\circ \text{PSC} - \text{P}^\circ \text{PeP}^\circ \text{P} \gg \text{CH} \ddot{\text{P}} \text{SP} \ddot{\text{P}} \text{Pj} \text{ P} \gg \text{C} - \text{PeP}^\circ \text{C} \dot{\text{H}} \dot{\text{C}} \dot{\text{H}} \text{PeP} \ddot{\text{P}} \text{Pj} \text{ P} \cdot \text{P}^\circ \dot{\text{C}} \dot{\text{P}} \text{Ps} \text{P} \pm \text{PsPj} \text{ C}, \text{P}^\circ \\ & \text{P} \gg \text{C} - \text{PeP}^\circ \text{C} \dot{\text{H}} \dot{\text{C}} \dot{\text{H}} \text{PeP} \ddot{\text{P}} \text{Pj} \text{ P} \cdot \text{P}^\circ \dot{\text{C}} \dot{\text{P}} \text{Ps} \text{P} \pm \text{PsPj}, \text{C} \dot{\text{H}} \text{PeP} \ddot{\text{P}} \text{PN}_2 \dot{\text{C}} \dot{\text{H}} \text{C}, \text{P}^\circ \text{P} \pm \text{C} - \text{P} \gg \text{C} - \text{P} \cdot \text{CrC}'' \text{ PSP}^\circ \dot{\text{C}} \dot{\text{H}} \text{C}, \text{C} \dot{\text{H}} \text{C} - \text{PN}_2, \end{aligned}$$

C-P· C€P€CŦPsPeP€Pj CÍPíPµPeC,CŦPsPj C,,P°CŦPjP°PePsP»PsPiC-C‡PSPsC— PrC-C—, C%Ps
P·CŦPjPsPIP»PµPSPs PIPiP»P€PIPsPj PSP° CŦC-P·PSC- CŦPµC‡PµPíC,PsCŦP€P. P'P€CŦPIP»PµPSPs
P·PIBŦ™ CŦP·CŦPIP°PSPSCŦ P· CÍPµCŦPsC,PsPSC-PSPsPIP€PjP€ CŦPµC‡PµPíC,PsCŦP°PjP€ 5
PĶPŸ_{2Ph/2PŸ}, 5 PĶPŸ₃, 5 PĶPŸ₆, PrPsPíP°PjC-PSPsPIP€PjP€ CŦPµC‡PµPíC,PsCŦP°PjP€ D₁, D₂, D₃, D₄,
D₅, PjCŦCŦP€P°CŦP€PSPsPIP€PjP€ CŦPµC‡PµPíC,PsCŦP°PjP€ PŦ₁-PŦ₅,
P°PrCŦPµPSPµCŦPiC-C‡PSP€Pj CŦPµC‡PµPíC,PsCŦPsPj a₁ C- PiC-CŦC,P°PjC-PSPsPIP€Pj PĶ₁-
CŦPµC‡PµPíC,PsCŦPsPj. Pj C...PsPrC- PrPsCŦP»C-PrPŦPµPSCŦ PiPsPIPµPrC-PSPeP€
C,PIP°CŦP€PS, CŦPeP€Pj PIPiPsPrP€P»P€ PsP»P°PSP·P°PíC-PS, PIP€CŦPIP»PµPSPs
P°PSC,P°PiPsPSC-P·Pj PsP»P°PSP·P°PíC-PSCŦ CŦPe PrPs CÍPµCŦPsC,PsPSC-PSPsPIP€C...
CŦPµC‡PµPíC,PsCŦC-PI 5PĶPŸ, C,P°Pe C- PrPs PrPsPíP°PjC-PSPsPIP€C... C-
C...PsP»C-PSPµCŦPiC-C‡PSP€C.... PhP»P°PSP·P°PíC-PS PjP°C" PIP€C%P€PN€ CŦC-PIPµPSCŦ
P·PIBŦ™ CŦP·CŦPIP°PSPSCŦ P· CŦPµC‡PµPíC,PsCŦP°PjP€ CÍPµCŦPsC,PsPSC-PSCŦ 5PĶPŸ₂,
PSC-PŦ P· CŦPµC‡PµPíC,PsCŦP°PjP€ PrPsPíP°PjC-PSCŦ D₂, C,P° CŦ PjPsPrPµP»CŦC... CŦPe *in*
vitro, C,P°Pe C- *in vivo*. P·P»PµPeC,CŦPsC,,C-P-C-PsP»PsPiC-C‡PSC- PrPsCŦP»C-PrPŦPµPSPSCŦ
PiPsPeP°P·P°P»P€, C%Ps PsP»P°PSP·P°PíC-PS CÍPµP»PµPeC,P€PIPsPs P·PjPµPSC€CŦC"
P·P±CŦPrP»P€PIC-CŦC,CH PjPµP·PsP»C-PjP±C-C‡PSP€C... (PŦ10)
PrPsPíP°PjC-PSPµCŦPiC-C‡PSP€C... PSPµPN€CŦPsPSC-PI, PIP€CŦPIP»CŦCŦC‡P€ PiCŦP€
C‡CHPsPjCŦ PSPµP·PSP°C‡PSP€PN€ PIPiP»P€PI PSP° CŦC,CŦC-P°CŦPSC- (PŦ9) C€P»CŦC...P€,
PiPsPIBŦ™ CŦP·P°PSC- P· PjPsC,PsCŦPSPsCŦ C,,CŦPSPeC‡C-C"CH. PhP»P°PSP·P°PíC-PS
PiP°P»CHPjCŦC" CŦPjPsPIPSP€PN€ CŦPµC,,P»PµPeCŦ CŦPSP€PePSPµPSPSCŦ, C%Ps
CŦPIC-PrC‡P€C,CH PiCŦPs PN€PsPiPs P°PSC,P€PiCŦP€C...PsC,P€C‡PSCŦ P°PeC,P€PIPsC-CŦC,CH
PiCŦP€ PiCŦP€PN€PsPjC- PI PrPsP·P°C..., PjPµPSC€P€C..., PSC-PŦ PrPsP·P€, C%Ps
CŦPiCŦP€C‡P€PSCŦCŦC,CH PeP°C,P°P»PµPíCŦC-CH, CŦPeP° C" PsP·PSP°PePsCŦ
PiPsP±C-C‡PSP€C... PjPsC,PsCŦPSP€C... PµC,,PµPeC,C-PI. PĶP° PIC-PrPjC-PSCŦ PIC-Pr
PrPµCŦPeP€C... C-PSC€P€C... P°PSC,P€PiCŦP€C...PsC,P€C‡PSP€C... P»C-PeP°CŦCŦCHPeP€C...
P·P°CŦPsP±C-PI, PsP»P°PSP·P°PíC-PS PiPsCŦP€P»CHC" CŦPµP°PeC‡C-C— PSP°
PiPsPrCŦP°P·PSP€PeP€ PiCŦP€ PiCŦPsPIPµPrPµPSPSC- P°PSPeCŦC-PsP»C-C,P€C‡PSPsPiPs
C,PµCŦC,CŦ.

PµCŦP€ PsPrPSPsCŦP°P·PsPiPsPjCŦ PiCŦP€PN€PsPjC- 10 PjPi PsP»P°PSP·P°PíC-PSCŦ CŦ
C...PsPrC- PiPsP·P€C,CŦPsPSPSPs-PµPjC-CŦC-PN€PSPsC— C,PsPjPsPiCŦP°C,,C-C— (PµP·PŸ) P·
CŦC‡P°CŦC,CH PrPsP±CŦPsPiPsP»CHC‡C-PI P·BŦ™ CŦCŦPSPiP°PSPs, C%Ps
PsP»P°PSP·P°PíC-PS PjP°PI P±C-P»CHC€P€PN€ CŦC-PIPµPSCŦ P·PIBŦ™ CŦP·CŦPIP°PSPSCŦ P·
CŦPµC‡PµPíC,PsCŦP°PjP€ 5 PĶPŸ_{2Ph}, PSC-PŦ C-P· PrPsPíP°PjC-PSPsPIP€PjP€
CŦPµC‡PµPíC,PsCŦP°PjP€ D₂. PŦCŦC-Pj C,PsPiPs, CŦ CŦPµP·CŦP»CHC,P°C,C- P°PSP°P»C-P·CŦ
P·PsP±CŦP°PŦPµPSCŦ, PsC,CŦP€PjP°PSP€C... PiC-Pr C‡P°CŦ PrPsCŦP»C-PrPŦPµPSCŦ
PiP°C‡C-C"PS,C-PI, C...PIPsCŦP€C... PSP° C€P€P·PsC,,CŦPµPSC-CH, PjPµC,PsPrPsPj
PsPrPSPsC,,PsC,PsPSPSPsC— PµPjC-CŦC-PN€PSPsC— PePsPjPiBŦ™ CHC,PµCŦPSPsC—
C,PsPjPsPiCŦP°C,,C-C— (PhPµP·PŦPŸ), P·BŦ™ CŦCŦCŦPíP°P»PsCŦCŦ, C%Ps
PsP»P°PSP·P°PíC-PS-C‡CŦC,P»P€PIC- PiP°C‡C-C"PS,C,P€ PIP€CŦPIP»CŦP»P€ PjPµPSC€P€PN€
CŦC-PIPµPSCŦ P·PIBŦ™ CŦP·CŦPIP°PSPSCŦ P·C- CŦC,CŦC-P°CŦPSP€PjP€ D₂-
CŦPµC‡PµPíC,PsCŦP°PjP€, PSC-PŦ C-PSC€C- P°PSC,P€PiCŦP€C...PsC,P€Pe- C,P°
CŦPµCŦPíC-CŦP€PrPsPSC‡CŦC,P»P€PIC- PiP°C‡C-C"PS,C,P€, C%Ps PiPsCŦC-PIPsCŦPSPSPs P·
PeP»PsP·P°PíC-PSC‡CŦC,P»P€PIP€PjP€ PiP°C‡C-C"PS,C,P°PjP€.

PŦP»C-PSC-C‡PSP° PµC,,PµPeC,P€PIPsC-CŦC,CH.

PµC-Pr C‡P°CŦ PrPiPsC... C-P· PrPiPsC... PiP»P°C‡PµP±Ps-PePsPSC,CŦPsP»CHPsPIP°PSP€C... C-
PrPiPsC... C-P· C,CŦCHPsC... PiPsCŦC-PIPsCŦP»CHPSPs-PePsPSC,CŦPsP»CHPsPIP°PSP€C...
PrPsCŦP»C-PrPŦPµPSCŦ P· CŦC‡P°CŦC,CH PiPsPSP°Pr 2900 C...PIPsCŦP€C... PSP°

C€P€P·PsC,,CḡPμPSC-Cḡ P· PīPsP·P€C,P€PIPSP€PjP€ C- PSpμPiP°C,P€PIPSP€PjP€
CḡP€PjPiC,PsPjP°PjP€ PsP»P°PSP·P°PiC-PS PīPsPeP°P·P°PI CḡC,P°C,P€CḡC,P€C‡PSPs
PrPsCḡC,PsPIC-CḡPSC- PrP°PSC- PīPsP»C-PiC€PμPSPSCḡ CḡPe PSpμPiP°C,P€PIPSP€C..., C,P°Pe
C- PīPsP·P€C,P€PIPSP€C... CḡP€PjPiC,PsPjC-PI.

PJ C...PsPrC- PjC-PḡPSP°CḡPsPrPSP€C... PīPsPrPIC-PN€PSP€C... CḡP»C-PiP€C...
PīPsCḡC-PIPSCḡP»CHPSP€C... PrPsCḡP»C-PrPḡPμPSCḡ P· CḡC‡P°CḡC,Cḡ 1484
C...PIPsCḡP€C... PSP° C€P€P·PsC,,CḡPμPSC-Cḡ, C€P€P·PsP°C,,PμPeC,P€PIPS-ClC,CH C,P° P·
P°CḡPsC‡C-PN€PsPIP°PSP€PjP€ P· C‡P€PjP€ C...PIPsCḡPsP±P°PjP€ CḡPsP·P»P°PrP°PjP€ P·
CḡC-P·PSP€Pj CḡC,CḡPīPμPSPμPj PīPsCḡCḡC€PμPSCḡ, C%Ps PīPsPIḡḡ™ CḡP·P°PSC- P·
PrPμPiCḡPμCḡP€PIPSP€PjP€ CḡP€PjPiC,PsPjP°PjP€ (16,6 PīCḡPSPeC,C-PI P·P° [C€PeP°P»PsCḡ](#)
[PḡPsPSC,PiPsPjPμCḡC--PḡCḡP±PμCḡPiP° PrP»Cḡ PsC‡C-PSPeP€ PrPμPiCḡPμCḡC-C—](#)),
[PīCḡPsCḡPīPμPeC,P€PIPSPμ PIC,PsCḡP€PSPSPμ PrPsCḡP»C-PrPḡPμPSPSCḡ PIC-Pr](#)
[PīPsC‡P°C,PeCḡ PrPs PeC-PSC‡Cḡ PsC‡C-PSPeP€ P·PjC-PS PSP°CḡC,CḡPsCḡ](#)
[PICḡC,P°PSPsPiP€P»Ps CḡC,P°C,P€CḡC,P€C‡PSPs P·PSP°C‡CḡC%Pμ](#)
[PīPsPeCḡP°C%PμPSPSCḡ \(Cḡ=0,001\) PīC-CḡP»Cḡ P»C-PeCḡPIP°PSPSCḡ](#)
[PsP»P°PSP·P°PiC-PSPsPj \(-6,0\)B PīPsCḡC-PIPSCḡPSPs P· C,P°PeP€Pj PīCḡP€](#)
[P»C-PeCḡPIP°PSPSC- PiP°P»PsPīPμCḡP€PrPsP»PsPj \(-3,1\).](#)

PJ PīP°C‡C-C''PSC,C-PI P· PjP°PSC-P°PeP°P»CHPSP€PjP€ P°P±Ps P·PjC-C€P°PSP€PjP€
PμPiC-P·PsPrP°PjP€ PīCḡP€ P±C-PiPsP»CḡCḡPSPsPjCḡ CḡPsP·P»P°PrC- PsP»P°PSP·P°PiC-PS
PīCḡPsPrPμPjPsPSCḡC,CḡCḡPIP°PI PIP€CḡPsPeCḡ PμC,,PμPeC,P€PIPS-ClC,CH Cḡ
P·PSP€PḡPμPSPSC- PjP°PSC-P°PeP°P»CHPSP€C... CḡP€PjPiC,PsPjC-PI PīCḡPsC,CḡPiPsPj
3 C,P€PḡPSC-PI PīPsCḡC-PIPSCḡPSPs P· PīP»P°C‡PμP±Ps C,P° PrP€PIP°P»PīCḡPsPμPeCḡPsPj.
PḡP»P°PSP·P°PiC-PS C,P°PePsPḡ PīPsPeP°P·P°PI PīPsCḡC-PIPSCḡPSCḡ
PμC,,PμPeC,P€PIPS-ClC,CH CḡPμP·CḡP»CHC,P°C,C-PI P· PīP°P»PsPīPμCḡP€PrPsP»PsPj Cḡ
PīPμCḡPμCḡP°C...CḡPIP°PSPSC- PSP° C‡P°CḡC,PeCḡ PīP°C‡C-C''PSC,C-PI C-P·
CḡP€PjPiC,PsPjP°C,P€C‡PSPsCḡ CḡC,P°PrC-C''Cḡ CḡPμPjC-CḡC-C—, PīPsC‡P€PSP°CḡC‡P€
P· PjP°PSC-C— C,P° PrPμPiCḡPμCḡC-C— PSP° 6 C- 12 C,P€PḡPSCḡC... P»C-PeCḡPIP°PSPSCḡ. PJ
C...PsPrC- PrPsCḡP»C-PrPḡPμPSPSCḡ PīC-Pr C‡P°Cḡ CḡCḡPīCḡC,PSCHPsPiPs
P»C-PeCḡPIP°PSPSCḡ P»C-C,C-C''Pj P°P±Ps PIP°P»CHPīCḡPsP°C,PsPj PīCḡPsC,CḡPiPsPj
2 C,P€PḡPSC-PI P· PrPsPrP°PIP°PSPSCḡPj PsP»P°PSP·P°PiC-PSCḡ Cḡ PrPsP·C- 10 PjPi
PICḡC,P°PSPsPiP»PμPSPs P·PSP°C‡PSPμ P·PSP€PḡPμPSPSCḡ CḡP€PjPiC,PsPjC-PI PjP°PSC-C—
PīPsCḡC-PIPSCḡPSPs P· C,P°PeP€Pj PīCḡP€ PjPsPSPsC,PμCḡP°PiC-C— P»C-C,C-C''Pj P°P±Ps
PIP°P»CHPīCḡPsP°C,PsPj PīC-CḡP»Cḡ 6 C,P€PḡPSC-PI.

PJ C...PsPrC- 12-PjC-CḡCḡC‡PSPsPiPs PrPsCḡP»C-PrPḡPμPSPSCḡ PīCḡPsC,,C-P»P°PeC,P€PeP€
CḡPμC‡P€PrP€PIC-PI PjP°PSC-P°PeP°P»CHPSP€C... PμPiC-P·PsPrC-PI Cḡ PīP°C‡C-C''PSC,C-PI,
CḡPeC- PrPsCḡCḡPiP»P€ CḡPμPjC-CḡC-C— P·P° PrPsPīPsPjPsPiPsCḡ PsP»P°PSP·P°PiC-PSCḡ C-
PI PīPsPrP°P»CHC€PsPjCḡ P±CḡP»P€ CḡP°PSPrPsPjC-P·PsPIP°PSC- Cḡ PīCḡCḡPīP€
PīCḡP€PN€PsPjCḡ PsP»P°PSP·P°PiC-PSCḡ P°P±Ps PīP»P°C‡PμP±Ps, PsP»P°PSP·P°PiC-PS
PīCḡPsPrPμPjPsPSCḡC,CḡCḡPIP°PI CḡC,P°C,P€CḡC,P€C‡PSPs P·PSP°C‡CḡC%Cḡ
PīPμCḡPμPIP°PiCḡ PīPsCḡC-PIPSCḡPSPs P· PīP»P°C‡PμP±Ps PI PeC-PSC‡PμPIC-PN€ C,PsC‡C‡C-
PeCḡP€C,PμCḡC-Cḡ PsC‡C-PSPeP€ CḡPμC‡P€PrP€PICḡ P±C-PiPsP»CḡCḡPSPsPiPs
CḡPsP·P»P°PrCḡ. PḡP»P°PSP·P°PiC-PS C,P°PePsPḡ PīPsPeP°P·P°PI CḡC,P°C,P€CḡC,P€C‡PSPs
P·PSP°C‡CḡC%C- PīPμCḡPμPIP°PiP€ PSP°Pr PīP»P°C‡PμP±Ps PI CḡP°PjPeP°C...
P·P°PiPsP±C-PiP°PSPSCḡ CḡPμC‡P€PrP€PICḡ PjP°PSC-C— P°P±Ps CḡPμC‡P€PrP€PICḡ
PrPμPiCḡPμCḡC-C—.

PJ C...PsPrC- PSP°CḡC,CḡPiPSPsPiPs 12-PjC-CḡCḡC‡PSPsPiPs PrPsCḡP»C-PrPḡPμPSPSCḡ
PīCḡPsC,,C-P»P°PeC,P€PeP€ CḡPμC‡P€PrP€PIC-PI PjP°PSC-P°PeP°P»CHPSP€C...

PJ P·PrPsC₇PsPIPëC... PrPsP±C₇PsPIPsP»CHC†C-PI P»C-C,PSCH₆PsPiPs PIC-PeCr (PIC-Pr 65 C₇PsPeC-PI) PiPsC₇C-PIPSC₄PSPs P·PjPsP»PsPrC€PëPjPë P·P° PIC-PePsPj PrPsP±C₇PsPIPsP»CHC†C₄PjPë, C₁PuC₇PuPrPSC-PN₆ PiPuC₇C-PsPr PSP°PiC-PIPIPëPIPuPrPuPSPSC₄ P±CrPI C,C₇PëPIP°P»C-C€PëPN₆ (51,8 PiC₇PsC,PëB 33,8 PiPsPrPëPSPë), PeP»C-C₇PuPSC₁ Cr PiP»P°P·PjC- PeC₇PsPIC- P±CrPI P·PSPëP¶PuPSPëPN₆ (17,5 PiC₇PsC,Pë 18,2 P»/PiPsPr). PαP°C₇PjP°PePsPeC-PSPμC,PëC‡PSC-PePsP»PëPIP°PSPSC₄, C°Ps C₁PiPsC₁C,PuC₇C-PiP°P»PëC₁C₄ Cr PrPsP±C₇PsPIPsP»CHC†C-PI P»C-C,PSCH₆PsPiPs PIC-PeCr, P·PSP°C...PsPrC₄C,C₇C₁C₄ Cr PjPuP¶P°C... PrC-P°PiP°P·PsPSC₁ PrP»C₄ PjPsP»PsPrC€PëC... PrPsP±C₇PsPIPsP»CHC†C-PI. PJ 44 C...PIPsC₇PëC... PSP° C€PëP·PsC,,C₇PuPSC-C₇ PIC-PePsPj > 65 C₇PsPeC-PI PrPsP·C₁PIP°PSPSC₄ PIC-Pr 5 PrPs 20 PjPi/PrPsP±Cr PSPμ P±CrP»Ps PiPsPiB₇TM C₄P·P°PSPs P·P¶PsPrPSPëPj C...P°C₇P°PeC,PuC₇PSPëPj PiC₇PsC,,C-P»PuPj PSPμP±P°P¶P°PSPëC... C₄PIPëC°.

PJ P¶C-PSPsPe PīPsCĤC-PIPSCĬPSPs P· C‡PsP»PsPIC-PeP°PjPë CĬPµCĤPµPrPSC-PNë
PīPµCĤC-PsPr PSP°PīC-PIIPëPIPµPrPµPSPSCĬ P±CřPI C,CĤPëPIP°P»C-CëPëPNë
(36,7 PīCĤPsC,Pë 32,3 PīPsPrPëPSPë) C,P° PeP»C-CĤPµPSCĬ Cř PīP»P°P·PjC- PeCĤPsPIC-
P±CřPI P·PSPëP¶PµPSPëPNë (18,9 PīCĤPsC,Pë 27,3 P»/PīPsPr). PhPrPSP°Pe
PsP»P°PSP·P°PīC-PS (5-20 PjPi) PīPsPeP°P·P°PI PīPsCĤC-PIPSCĬPSPëPNë
PīCĤPsC,,C-P»CH P±PµP·PīPµPePë CĬPe Cř P¶C-PSPsPe (N=467), C,P°Pe C- Cř
C‡PsP»PsPIC-PeC-PI (N=869).

PµP°C†C-C"°PSC,Pë P· PSPëCĤPePsPIPsCĤ PSPµPrPsCĬC,P°C,PSC-CĬC,CĤ.

PJ PīP°C†C-C"°PSC,C-PI P· PSPëCĤPePsPIPsCĤ PSPµPrPsCĬC,P°C,PSC-CĬC,CĤ (PeP»C-CĤPµPSCĬ
PeCĤPµP°C,PëPSC-PSCř < 10 PjP»/C...PI) PīPsCĤC-PIPSCĬPSPs P·C- P·PrPsCĤPsPIPëPjPë
PrPsP±CĤPsPIPsP»CHC†CĬPjPë, PSPµ P±CřP»Ps C-CĬC,PsC,PSPsC— CĤC-P·PSPëC†C- PI
PīPsPeP°P·PSPëPeP°C... CĬPµCĤPµPrPSCĤPsPiPs PīPµCĤC-PsPrCř
PSP°PīC-PIIPëPIPµPrPµPSPSCĬ (37,7 PīCĤPsC,Pë 32,4 PīPsPrPëPSPë) P°P±Ps
PeP»C-CĤPµPSCĬCř Cř PīP»P°P·PjC- PeCĤPsPIC- (21,2 PīCĤPsC,Pë 25,0 P»/PīPsPr).
P"°PSCĬP»C-PrP¶PµPSPSCĬ PīPsPeP°P·P°P»Pë, C%°Ps PīCĤPëP±P»PëP·PSPs 57 %
PsP»P°PSP·P°PīC-PSCř P· CĤP°PrC-PsP°PeC,PëPIPsCĤ PjC-C,PePsCĤ
PīCĤPëCĬCřC,PSC- PI CĬPµC‡C-, PīPsP»PsPIPsPëPj C‡PëPSPsPj Cř PIPëPiP»CĬPrC-
PjPµC,P°P±PsP»C-C,C-PI.

PµP°C†C-C"°PSC,Pë P· PīPµC‡C-PSPePsPIPsCĤ PSPµPrPsCĬC,P°C,PSC-CĬC,CĤ.

PJ PīCĤPsC†PµCĬC- PrPsCĬP»C-PrP¶PµPSPSCĬ PIPīP»PëPICř PīPµC‡C-PSPePsPIPsC—
PSPµPrPsCĬC,P°C,PSPsCĬC,C- P· CřC‡P°CĬC,CĤ 6 PīP°C†C-C"°PSC,C-PI P· PeP»C-PSC-C‡PSPs
P·PSP°C‡CřC%°PëPj C†PëCĤPsP·PsPj (PeP»P°CĬ A (n = 5) C,P° B (n = 1) P·P° CëPeP°P»PsCĤ
PŞP°PNëP»PrP°-PµBĤ™ CĤ) P±CřP»Ps PIPëCĬPIP»PµPSPs PSPµP·PSP°C‡PSPëPNë PIPīP»PëPI PSP°
C,,P°CĤPjP°PePsPeC-PSPµC,PëPeCř PīPµCĤPsCĤP°P»CHPSPs PIPIPµPrPµPSPsPiPs
PsP»P°PSP·P°PīC-PSCř (PsPrPSPsCĤP°P·PsPIP° PrPsP·P° CĬC,P°PSPsPIPëC,CH 2,5-7,5 PjPi).
PµP°C†C-C"°PSC,Pë P· P»PµPiPePëPjPë C,P° PīPsPjC-CĤPSPëPjPë PīPsCĤCřCëPµPSPSCĬPjPë
C,,CřPSPeC†C-C— PīPµC‡C-PSPePë PjP°P»Pë PrPµC%°Ps PīC-PrPIPëC%°PµPSPëPNë
CĬPëCĬC,PµPjPSPëPNë PeP»C-CĤPµPSCĬ C,P° P±C-P»CHCë CëPIPëPrPePëPNë PīPµCĤC-PsPr
PIPëPIPµPrPµPSPSCĬ PīPsCĤC-PIPSCĬPSPs P· PīP°C†C-C"°PSC,P°PjPë, Cř CĬPePëC... PSPµ
P±CřP»Ps PīPsCĤCřCëPµPSPSCĬ C,,CřPSPeC†C-C— PīPµC‡C-PSPePë (n = 3). PŸPµCĤPµPr
PīP°C†C-C"°PSC,C-PI C-P· C†PëCĤPsP·PsPj P±CřP»Ps P±C-P»CHCëPµ PeCřCĤC†C-PI (4/6; 67 %),
PSC-P¶ CĬPµCĤPµPr PīP°C†C-C"°PSC,C-PI P±PµP· PīPsCĤCřCëPµPSPSCĬ C,,CřPSPeC†C-C—
PīPµC‡C-PSPePë (0/3; 0 %).

PµP°C†C-C"°PSC,Pë, CĬPeC- PīP°P»CĬC,CĤ.

P' PsCĬC-P±, CĬPeC- PSPµ PīP°P»CĬC,CĤ, PīPsCĤC-PIPSCĬPSPs P· PsCĬPsP±P°PjPë, CĬPeC-
PjP°CĤC,CĤ P·PIPëC‡PeCř PīP°P»PëC,Pë (C‡PsP»PsPIC-PePë C- P¶C-PSPePë),
CĬPµCĤPµPrPSC-PNë PīPµCĤC-PsPr PSP°PīC-PIIPëPIPµPrPµPSPSCĬ
PīPsPrPsPIP¶CřPIP°PICĬCĬ (38,6 PīCĤPsC,Pë 30,4 PīPsPrPëPSPë), P° PeP»C-CĤPµPSCĬ Cř
PīP»P°P·PjC- PeCĤPsPIC- P±CřPI P·PSPëP¶PµPSPëPNë (18,6 PīCĤPsC,Pë 27,7 P»/PīPsPrPëPSCř).

PµP»C-CĤPµPSCĬ PsP»P°PSP·P°PīC-PSCř Cř PīP»P°P·PjC- PeCĤPsPIC- PSPëP¶C‡PëPNë PI
PsCĬC-P± P»C-C,PSCHPsPiPs PIC-PeCř PīPsCĤC-PIPSCĬPSPs P· PjPsP»PsPrPëPjPë, Cř
P¶C-PSPsPe PīPsCĤC-PIPSCĬPSPs P· C‡PsP»PsPIC-PeP°PjPë C,P° PI PsCĬC-P±, CĬPeC- PSPµ
PīP°P»CĬC,CĤ, PīPsCĤC-PIPSCĬPSPs P· C,PëPjPë, C...C,Ps PjP°C" P·PIPëC‡PeCř PīP°P»PëC,Pë.
PµCĤPsC,Pµ CĬC,CřPīC-PSCH PIPīP»PëPICř PIC-PeCř, CĬC,P°C,C- P°P±Ps PīP°P»C-PSPSCĬ

PSP° PeP»C-CT̃PμPSCÍ PsP»P°PSP·P°P̃C-PSCÍ CÍ P̃P»P°P·PjC- PeCT̃PsPIC- C,P° P̃PμCT̃C-PsPr
PSP°P̃C-PIPIP̃PIPμPrPμPSPSCÍ PsP»P°PSP·P°P̃C-PSCÍ PSPμP·PSP°C‡PSP̃PÑ
P̃PsCT̃C-PIPSCÍPSPs P· P·P°P̃P°P»CH̃PSPsCT̃ PjC-PSP»P̃PIC-CT̃C,CT̃ PjC-P¶
C-PSPrP̃PIC-PrCÍCÍPjP°PjP̃.

PJ P̃CT̃PsC†PμCÍC- PrPsCÍP»C-PrP¶PμPSCĤ P· CÍC‡P°CT̃C,CT̃ P̃P°C†C-C°PSC,C-PI-
C°PICCT̃PsP̃PμPÑC†C-PI, P̃P°C†C-C°PSC,C-PI CÍP̃PsPSCÍCT̃CH̃PePsC— C,P°
PeP̃C,P°PÑCÍCT̃CH̃PePsC— PSP°C†C-PsPSP°P»CH̃PSPsCÍC,PμPÑ PIC-PrPjC-PSPSPsCÍC,PμPÑ CÍ
C„P°CT̃PjP°PePsPeC-PSPμC,P̃C†C- PsP»P°PSP·P°P̃C-PSCÍ PSPμ PIP̃CÍPIP»PμPSPs.

P°C-C,P̃.

PαP°CT̃PjP°PePsPeC-PSPμC,P̃PeP° PsP»P°PSP·P°P̃C-PSCÍ CÍ P̃C-PrP»C-C,PeC-PI (PIC-Pr 13
PrPs 17 CT̃PsPeC-PI) C- PrPsCT̃PsCÍP»P̃C... P̃PsPrC-P±PSP°. PJ C...PsPrC-
PeP»C-PSC-C‡PSP̃C... PrPsCÍP»C-PrP¶PμPSCĤ CÍPμCT̃PμPrPSC-PÑ PIP̃P»P̃PI
PsP»P°PSP·P°P̃C-PSCÍ P±CÍPI P̃CT̃P̃P±P»P̃P·PSPs PSP° 27 % PIP̃C%̃P̃PÑ CÍ
P̃C-PrP»C-C,PeC-PI. P°PμPjPsP̃CT̃P°C„C-C‡PSC- PIC-PrPjC-PSPSPsCÍC,C- PjC-P¶
P̃C-PrP»C-C,PeP°PjP̃ C- PrPsCT̃PsCÍP»P̃PjP̃ PIP̃P»CT̃C‡P°CT̃C,CT̃ PSP̃P¶C‡CÍ
CÍPμCT̃PμPrPSCĤ PjP°CÍCÍ C,C-P»P° C,P° PjPμPSC€CÍ PeC-P»CH̃PeC-CÍC,CT̃ PeCÍCT̃C†C-PI
CÍPμCT̃PμPrB P̃P°C†C-C°PSC,C-PI P̃C-PrP»C-C,PePsPIP̃PiPs PIC-PeCÍ. P̃P°PeC-
C„P°PeC,PsCT̃P̃, PÑPjPsPIC-CT̃PSPs, PIP̃P»P̃PIP°CT̃C,CT̃ PSP° PIP̃C%̃P̃PÑ
CÍPμCT̃PμPrPSC-PÑ PμC„PμPeC, PsP»P°PSP·P°P̃C-PSCÍ, C%̃Ps CÍP̃PsCÍC,PμCT̃C-PiP°PICÍCÍ
CÍ P̃C-PrP»C-C,PeC-PI.

P̃P»C-PSC-C‡PSC- C...P°CT̃P°PeC,PμCT̃P̃CÍC,P̃PeP̃.

PμPsPeP°P·P°PSPSCÍ.

P̃P»P°PSP·P°P̃C-PS P̃PsPeP°P·P°PSP̃PÑ PrP»CÍ P»C-PeCÍPIP°PSPSCÍ
C€P̃P·PsC„CT̃PμPSC-C—.

P̃P»P°PSP·P°P̃C-PS PμC„PμPeC,P̃PIPSP̃PÑ PrP»CÍ P̃C-PrC,CT̃P̃PjP°PSPSCÍ
PrPsCÍCÍPIPSCÍC,PsPiPs PeP»C-PSC-C‡PSPsPiPs PμC„PμPeC,CÍ P̃C-Pr C‡P°CÍ
C,CT̃P̃PIP°P»PsC— C,PμCT̃P°P̃C-C— CÍ P̃P°C†C-C°PSC,C-PI, CÍ CÍPeP̃C...
CÍP̃PsCÍC,PμCT̃C-PiP°P»P°CÍCÍ PIC-PrP̃PsPIC-PrCH̃ PSP° P̃PsC‡P°C,PePsPICÍ
C,PμCT̃P°P̃C-CT̃.

P̃P»P°PSP·P°P̃C-PS P̃PsPeP°P·P°PSP̃PÑ PrP»CÍ P»C-PeCÍPIP°PSPSCÍ
PjP°PSC-P°PeP°P»CH̃PSP̃C... PμP̃C-P·PsPrC-PI P̃PsPjC-CT̃PSPsPiPs C,P°
C,CÍP¶PePsPiPs CÍC,CÍP̃PμPSCÍ.

P̃P»P°PSP·P°P̃C-PS P̃PsPeP°P·P°PSP̃PÑ PrP»CÍ P̃CT̃PsC„C-P»P°PeC,P̃PeP̃
P̃PsPIC,PsCT̃PSP̃C... PSP°P̃P°PrC-PI CÍ P̃P°C†C-C°PSC,C-PI P·
P±C-P̃PsP»CÍCT̃PSP̃PjP̃ CT̃PsP·P»P°PrP°PjP̃, CÍ CÍPeP̃C... P±CÍP»Ps
PsC,CT̃P̃PjP°PSPs P̃PsP·P̃C,P̃PIPSCÍ PIC-PrP̃PsPIC-PrCH̃ P̃CT̃P̃
P»C-PeCÍPIP°PSPSC- PsP»P°PSP·P°P̃C-PSPsPjP°PSC-C—.

PuCTjPsC,PePiPsPeP°P·P°PSPSCII.

PuC-PrPIPëC%PuPSP° C±CrC,P»PëPIC-ClC,CH PrPs PrC-CHC±PsC— CTjPuC±PsPIPëPSPë P°P±Ps PrPs P±CrPrCH-ClPePsC— P· PrPsPiPsPjC-P¶PSPëC... CTjPuC±PsPIPëPS PiCTjPuPiP°CTjP°C,Cr; PIC-PrPsPjPëPNë CTjPëP·PëPe P·P°PeCTjPëC,PsPeCrC,PsPIPsC— PiP»P°CrPePsPjPë.

P'P·P°C" PjPsPrC-CII P· C-PSC€PëPjPë P»C-PeP°CTjClCHPePëPjPë P·P°ClPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C" PjPsPrC-PNë.

P'C-PrPsPjPs, C%Ps PrPsClP»C-PrP¶PuPSPSCII PIP·P°C" PjPsPrC-C— P· C-PSC€PëPjPë P»C-PeP°CTjClCHPePëPjPë P·P°ClPsP±P°PjPë PiCTjPsPIPsPrPëP»Pë C,C-P»CHPePë P· CrC±P°ClC,CH PrPsCTjPsClP»PëC... PiP°C†C-C" PSC,C-PI.

P'P·P°C" PjPsPrC-C—, C%Ps PjP°CHC,CH PiPsC,PuPSC†C-PNëPSPëPNë PIPiP»PëPI PSP°
PsP»P°PSP·P°PiC-PS

PhClPeC-P»CHPePë PsP»P°PSP·P°PiC-PS PjPuC,P°P±PsP»C-P·CrC"C,CHClCl
C-P·PsC,,PuCTjPjPuPSC,PsPj CYP1A2, CTjPuC±PsPIPëPSPë, C%Ps ClPiPuC†PëC,,C-C±PSPs
C-PSPiC-P±CrCHC,CH P°P±Ps C-PSPrCrPeCrCHC,CH C†PuPNë C-P·PsC,,PuCTjPjPuPSC,,
PjPsP¶CrC,CH PIPiP»PëPIP°C,Pë PSP° C,,P°CTjPjP°PePsPeC-PSPuC,PëPeCr
PsP»P°PSP·P°PiC-PSCr.

P†PSPrCrPeC,PsCTjPë CYP1A2

PuPuC,P°P±PsP»C-P·Pj PsP»P°PSP·P°PiC-PSCr PjPsP¶Pu P±CrC,Pë
C-PSPrCrPePsPIP°PSPëPNë PiP°P»C-PSPSCII Pj C,P° P·P°ClC,PsClCrPIP°PSPSCII Pj
PeP°CTjP±P°PjP°P·PuPiC-PSCr, ClPePëPNë PiCTjPëP·PIPsPrPëC,CH PrPs
P·PSPëP¶PuPSPSCII PePsPSC†PuPSC,CTjP°C†C-C— PsP»P°PSP·P°PiC-PSCr.
PÿPiPsClC,PuCTjC-PiP°P»PsClCl ClP»P°P±PePu P°P±Ps PiPsPjC-CTjSPu
PiC-PrPIPëC%PuPSPSCII PeP»C-CTjPuPSCrCr PsP»P°PSP·P°PiC-PSCr. P»P»C-PSC-C±PSC-
PIPëClPSPsPIPePë PsP±PjPuP¶PuPSC-, P°P»Pu CTjPuPePsPjPuPSPrCrC"C,CHClCl
PeP»C-PSC-C±PSPëPNë PjPsPSC-C,PsCTjPëPSPi C,P°, ClPeC%Ps PSPuPsP±C...C-PrPSPs,
P·P±C-P»CHC€PuPSPSCII PrPsP·Pë PsP»P°PSP·P°PiC-PSCr (PrPëPI. CTjPsP·PrC-P»
B«PÿPiPsClC-P± P·P°ClC,PsClCrPIP°PSPSCII C,P° PrPsP·PëB»).

P†PSPiC-P±C-C,PsCTjPë CYP1A2

P»P»CrPsPeClP°PjC-PS, ClPiPuC†PëC,,C-C±PSPëPNë C-PSPiC-P±C-C,PsCTj CYP1A2,
C-ClC,PsC,PSPs P·PSPëP¶CrC" PjPuC,P°P±PsP»C-P·Pj PsP»P°PSP·P°PiC-PSCr. PiPu
PiCTjPëP·PIPsPrPëC,CH PrPs ClPuCTjPuPrPSCHPsPiPs P·CTjPsClC,P°PSPSCII
PjP°PeClPëPjP°P»CHPSPsC— PePsPSC†PuPSC,CTjP°C†C-C— (C_{max}) PiC-ClP»Cl PiCTjPëPNëPsPjCr
C,,P»CrPsPeClP°PjC-PSCr PSP° 54 % ClPuCTjPuPr P¶C-PSPsPe, ClPeC- PSPu PiP°P»ClC,CH,
C,P° PSP° 77 % ClPuCTjPuPr C±PsP»PsPIC-PeC-PI, ClPeC- PiP°P»ClC,CH. PÿPuCTjPuPrPSC"
P·CTjPsClC,P°PSPSCII PiP»PsC%C- PiC-Pr C,,P°CTjPjP°PePsPeC-PSPuC,PëC±PSPsCH
PeCTjPëPIPsCH B«PePsPSC†PuPSC,CTjP°C†C-Cl-C±P°ClB» (AUC) PsP»P°PSP·P°PiC-PSCrB
ClC,P°PSPsPIPeC,CH 52 % C,P° 108 % PIC-PrPiPsPIC-PrPSPs. P"»Cl
PiP°C†C-C" PSC,C-PI, ClPeC- P·P°ClC,PsClPsPICrCHC,CH C,,P»CrPsPeClP°PjC-PS
P°P±Ps P±CrPrCH-ClPeC- C-PSC€C- C-PSPiC-P±C-C,PsCTjPë CYP1A2,
PSP°PiCTjPëPeP»P°Pr C†PëPiCTjPsC,,P»PsPeClP°C†PëPS, PSPuPsP±C...C-PrPSPs

PiC7PeP·PSP°C±P°C,Pë P·PSPëP¶PµPSC- PrPsP·Pë PsP»P°PSP·P°PiC-PSCr. PkPµPsP±C...C-PrPSPs
C7PsP·PiP»C¶PSCrC,Pë PjPsP¶P»PëPIC-ClC,Ch P·PSPëP¶PµPSPSC¶ PrPsP·Pë
PsP»P°PSP·P°PiC-PSCr, C¶PeC%Ps C-PSC-C†C-PNëPsPIP°PSPs P»C-PeCrPIP°PSPSC¶
C-PSPiC-P±C-C,PsC7PsPj CYP1A2.

P—PSPëP¶PµPSPSC¶ P±C-PsPrPsClC,CrPiPSPsClC,C-

P—P°ClC,PsClCrPIP°PSPSC¶ P°PeC,PëPIPsPIP°PSPsPiPs PICrPiC-P»P»C¶
P·PSPëP¶CrPIP°P»Ps PiPµC7PsC7P°P»CHPSCr P±C-PsPrPsClC,CrPiPSC-ClC,Ch
PsP»P°PSP·P°PiC-PSCr PSP° 50-60 % C- PiPsPIPëPSPSPs
P·P°ClC,PsClPsPICrPIP°C,PëClC¶ PiC7PsC,C¶PiPsPj 2 PiPsPrPëPS PrPs
PiC7PePNëPsPjCr P°P±Ps 2 PiPsPrPëPS PiC-ClP»C¶ PiC7PePNëPsPjCr
PsP»P°PSP·P°PiC-PSCr.

PαP»CrPsPeClPµC,PëPS (C-PSPiC-P±C-C,PsC7 CYP 2D6), PsPrPSPsC7P°P·PsPIP° PrPsP·P°
P°PSC,P°C†PëPrC-PI, C%Ps PjC-ClC,C¶C,Ch P°P»CHPjC-PSC-PNë C,P° PjP°PiPSC-PNë, P°P±Ps
C†PëPjPµC,PëPrPëPSCr C-ClC,PsC,PSPs PSPµ PIPiP»PëPIP°P»Pë PSP°
C,,P°C7PjP°PePsPeC-PSPµC,PëPeCr PsP»P°PSP·P°PiC-PSCr.

PµPsC,PµPSC†C-PNëPSP° P·PrP°C,PSC-ClC,Ch PsP»P°PSP·P°PiC-PSCr
PIP·P°C”PjPsPrC-C¶C,Pë P· C-PSC€PëPjPë P»C-PeP°C7ClCHPePëPjPë P·P°ClPsP±P°PjPë

PhP»P°PSP·P°PiC-PS PjPsP¶Pµ PIPëC¶PIP»C¶C,Pë P°PSC,P°PiPsPSC-P·Pj PrPs
PµC,,PµPeC,C-PI PiC7C¶PjPëC... C,P° PSPµPiC7C¶PjPëC... P°PiPsPSC-ClC,C-PI
PrPsPiP°PjC-PSCr.

PhP»P°PSP·P°PiC-PS PSPµ PiC7PePiPSC-C†CrPIP°PI PsClPSPsPIPSC- CYP 450-
C-P·PsC,,PµC7PjPµPSC,Pë (PSP°PiC7PePeP»P°Pr, 1P2, 2D6, 2C9, 2C19, 3A4) *in vitro*. PÿP°PePëPj
C†PëPSPsPj, PSPµ PsC†C-PeCrC”C,CHClC¶ PSC-C¶PePëC... PsClPsP±P»PëPIPëC...
PIP·P°C”PjPsPrC-PNë, C%Ps PiC-PrC,PIPµC7PrP¶PµPSPs PI PrPsClP»C-PrP¶PµPSPSC¶C... *in*
vivo, PrPµ PSPµ PIC-PrP·PSP°C†P°P»PsClCH C-PSPiC-P±CrPIP°PSPSC¶
PjPµC,P°P±PsP»C-P·PjCr PsP»P°PSP·P°PiC-PSCr PiC7Pe P·P°ClC,PsClCrPIP°PSPSC- C,P°PePëC...
P°PeC,PëPIPSPeC... C7PµC†PsPIPëPS: C,C7PëC†PëPeP»C-C†PSPëC...
P°PSC,PëPrPµPiC7PµClP°PSC,C-PI (C%Ps PiC7PµPrClC,P°PIP»C¶CHC,Ch
PiPµC7PµPIP°P¶PSPs C€P»C¶C... CYP2D6), PIP°C7C,,P°C7PePSCr (CYP2C9),
C,PµPsC,,C-P»C-PSCr (CYP1A2) P°P±Ps PrC-P°P·PµPiP°PjCr (CYP3A4, 2C19).

PkPµ P±CrP»Ps PIC-PrP·PSP°C†PµPSPs PIP·P°C”PjPsPrC-C— PsP»P°PSP·P°PiC-PSCr
PiC7Pe P·P°ClC,PsClCrPIP°PSPSC- PNëPsPiPs P· P»C-C,C-C”Pj P°P±Ps
P±C-PiPµC7PePrPµPSPsPj.

PÿPµC7P°PiPµPIC,PëC†PSPëPNë PjPsPSC-C,PsC7PePSPi C7C-PIPSC¶
PIP°P»CHPiC7PsP°C,Cr Cr PiP»P°P·PjC- PeC7PsPIC- PSPµ PIPëC¶PIPëPi
PSPµPsP±C...C-PrPSPsClC,C- PePsC7PµPeC†C-C— PrPsP·Pë PIP°P»CHPiC7PsP°C,Cr
PiC7Pe ClCrPiCrC,PSCHPsPjCr P·P°ClC,PsClCrPIP°PSPSC- P· PsP»P°PSP·P°PiC-PSPsPj.

P—P°PiP°P»CHPSP° P°PeC,PëPIPSC-ClC,Ch C%PsPrPs C†PµPSC,C7P°P»CHPSPsC—
PSPµC7PIPsIPsC— ClPëClC,PµPjPë (PiPkPÿ)

P— PsP±PµC7PµP¶PSC-ClC,Ch ClP»C-Pr P·P°ClC,PsClPsPICrPIP°C,Pë

PsP»P°PSP·P°PīC-PS PīP°C†C-C°PSC,P°Pj, CłPeC- PīCḡPēPNēPjP°CḡC,CH PμC,P°PSPsP»
P°P±Ps P»C-PeP°CḡCḡCHPeC- P·P°CḡPsP±Pē, C°Ps PjPsPḡCḡC,CH
CḡPīCḡPēC†PēPSPēC,Pē PīCḡPēPiPSC-C†PμPSPSCł P|PǃPŸ.

PŸCḡPīCḡC,PSC° P·P°CḡC,PSCḡCḡPIP°PSPSCł PsP»P°PSP·P°PīC-PSCḡ P·
P°PSC,PēPīP°CḡPeC-PSCḡPsPSC-C†PSPēPjPē PīCḡPμPīP°CḡP°C,P°PjPē PīP°C†C-C°PSC,P°Pj C-P·
C...PIPSCḡPsP±PsCḡ PμP°CḡPeC-PSCḡPsPSP° C,P° PrPμPjPμPSC†C-C°Cḡ PSPμ
CḡPμPePsPjPμPSPḡCḡC,CHCḡCł (PrPēPI. CḡPsP·PrC-P» B«PhCḡPsP±P»PēPIPsCḡC,C-
P·P°CḡC,PSCḡCḡPIP°PSPSCłB»).

P†PSC,PμCḡPIP°P» QTc

PŸP»C-Pr P· PsP±PμCḡPμPḡPSC-CḡC,CH PīCḡPēP·PSP°C†P°C,Pē PsP»P°PSP·P°PīC-PS P·
C-PSCēPēPjPē PīCḡPμPīP°CḡP°C,P°PjPē P· PIC-PrPsPjPēPj CḡPēP·PēPePsPj
PīC-PrPIPēC°PμPSPSCł C-PSC,PμCḡPIP°P»Cḡ QTc (PrPēPI. CḡPsP·PrC-P»
B«PhCḡPsP±P»PēPIPsCḡC,C- P·P°CḡC,PSCḡCḡPIP°PSPSCłB»).

PhCḡPsP±P»PēPIPsCḡC,C- P·P°CḡC,PSCḡCḡPIP°PSPSCł.

PμC-Pr C†P°Cḡ P»C-PeCḡPIP°PSPSCł P°PSC,PēPīCḡPēC...PsC,PēC†PSPēPjPē
P·P°CḡPsP±P°PjPē PīPsP»C-PīCēPμPSPSCł PeP»C-PSC-C†PSPsPiPs CḡC,P°PSCḡ
PīP°C†C-C°PSC,P° PjPsPḡPμ P·P°PNēPSCłC,Pē PIC-Pr PrPμPeC-P»CHPePsC... PrPSC-PI
PrPs PrPμPeC-P»CHPePsC... C,PēPḡPSC-PI. PμCḡPsC,CłPiPsPj C†CHPsPiPs
PīPμCḡC-PsPrCḡ PSPμPsP±C...C-PrPSPēPNē CḡPμC,PμP»CHPSPēPNē
PjPsPSC-C,PSCḡPēPSPi PīP°C†C-C°PSC,C-PI.

*PμCḡPēC...PsP·, PīPsPIbḡ™ CłP·P°PSPēPNē P· PrPμPjPμPSC†C-C°Cḡ C,P°/P°P±Ps
CḡPsP·P»P°PrP°PjPē PīPsPIPμPrC-PSPePē.*

PhP»P°PSP·P°PīC-PS PSPμ PīCḡPēP·PSP°C†PμPSPēPNē PrP»Cł P»C-PeCḡPIP°PSPSCł
PīCḡPēC...PsP·C-PI, PīPsPIbḡ™ CłP·P°PSPēC... P· PrPμPjPμPSC†C-C°Cḡ C,P°/P°P±Ps
PīPsCḡCḡCēPμPSPSCłPj PīPsPIPμPrC-PSPePē, P° C,P°PePsPḡ PSPμ
CḡPμPePsPjPμPSPḡCḡC,CHCḡCł PrP»Cł P·P°CḡC,PSCḡCḡPIP°PSPSCł PrP°PSPēPj
PīP°C†C-C°PSC,P°Pj Cḡ P·PIbḡ™ CłP·PeCḡ P· PīC-PrPIPēC°PμPSPSCłPj
P»PμC,P°P»CHPSPsCḡC,C- C,P° CḡPēP·PēPeCḡ
C†PμCḡPμP±CḡPsPIP°CḡPeCḡP»CłCḡPSPēC... PIPēPīP°PrPeC-PI. Pj C...PsPrC-
PīP»P°C†PμP±Ps-PePsPSC,CḡPsP»CHPsPIP°PSPēC... PeP»C-PSC-C†PSPēC...
PrPsCḡP»C-PrPḡPμPSCḡ (C,CḡPēPIP°P»C-CḡC,CH 6-12 C,PēPḡPSC-PI) P· CḡC†P°CḡC,CH
PīP°C†C-C°PSC,C-PI P»C-C,PSCḡPsPiPs PIC-PeCḡ (CḡPμCḡPμPrPSC-PNē PIC-Pe 78
CḡPsPeC-PI), CłPeC- CḡC,CḡP°PḡPrP°CḡC,CH PSP° PīCḡPēC...PsP·Pē, PīPsPIbḡ™ CłP·P°PSC- P·
PrPμPjPμPSC†C-C°Cḡ C,P°/P°P±Ps PīPsCḡCḡCēPμPSPSCłPj PīPsPIPμPrC-PSPePē,
PeC-P»CHPeC-CḡC,CH P»PμC,P°P»CHPSPēC... PIPēPīP°PrPeC-PI P±CḡP»P° Cḡ 2 CḡP°P·Pē
PIPēC°P° Cḡ PīP°C†C-C°PSC,C-PI, CłPeC- PīCḡPēPNēPjP°P»Pē PsP»P°PSP·P°PīC-PS,
PīPsCḡC-PIPSCłPSPs P· PīP»P°C†PμP±Ps (3,5 % PīCḡPsC,Pē 1,5 % PIC-PrPīPsPIC-PrPSPs).
P·PēCḡPsPeP° P»PμC,P°P»CHPSC-CḡC,CH PSPμ P±CḡP»P° PīPsPIbḡ™ CłP·P°PSP° P·
PIPμP»PēC†PēPSPsCḡ P·P°CḡC,PSCḡPsPICḡPIP°PSPēC... PrPsP· PsP»P°PSP·P°PīC-PSCḡ
(CḡPμCḡPμPrPSCł PrPsP±PsPIP° PrPsP·P° CḡC,P°PSPsPIPēC,CH 4,4 PjPi) P°P±Ps P·
C,CḡPēPIP°P»C-CḡC,CH P»C-PeCḡPIP°PSPSCł. PαP°PeC,PSCḡPē CḡPēP·PēPeCḡ, CłPeC-

PIPIPsCTjPsP±P° PμP°CTjPeC-PSCÍPsPSP°. PǵPμ CTjPμPePsPjPμPSPPrPsPIP°PSPs
P·P°CÍC,PScÍCÍPIP°PSPSCÍ PsP»P°PSP·P°PiC-PSCÍ PI C,PμCTjP°PiC-C— PiCÍPëC...PsP·C-PI,
C%Ps P°CÍPsC†C-PNëPsPIP°PSC- P· P°PiPsPSC-CÍC,P°PjPë PrPsPiP°PjC-PSCÍ CÍ
PiP°C†C-C" PSC,C-PI C-P· C...PIPsCTjPsP±PsCñ PμP°CTjPeC-PSCÍPsPSP°. PJ C...PsPrC-
PeP»C-PSC-C†PSPëC... PrPsCÍP»C-PrP¶PμPSCH PrCÍP¶Pμ C†P°CÍC,Ps
CÍPiPsCÍC,PμCTjC-PiP°P»PsCÍCÍ PiPsPiC-CTjC€PμPSPSCÍ CÍPëPjPiC,PsPjP°C,PëPePë
C...PIPsCTjPsP±Pë PμP°CTjPeC-PSCÍPsPSP° C,P° PiP°P»CñC†PëPSP°C†C-PNë, C†P°CÍC,C-C€Pμ,
PSC-P¶ PiCTjPë PiCTjPëPNëPsPjC- PiP»P°C†PμP±Ps (PrPëPI. CTjPsP·PrC-P» B«PμPsP±C-C†PSC-
CTjPμP°PeC†C-C—B»); PiCTjPë P»C-PeCÍPIP°PSPSC- PiCÍPëC...PsC,PëC†PSPëC...
CÍPëPjPiC,PsPjC-PI C,PμCTjP°PiC-CÍ PsP»P°PSP·P°PiC-PSPsPj PSPμ P±CÍP»P° P±C-P»CHC€
PμC,,PμPeC,PëPIPSPsCñ PiPsCTjC-PIPSCLIPSPs C-P· P·P°CÍC,PScÍCÍPIP°PSPSCÍPj
PiP»P°C†PμP±Ps. P— CÍP°PjPsPiPs PiPsC†P°C,PeCÍ C†PëC... PrPsCÍP»C-PrP¶PμPSCH PIC-Pr
PiP°C†C-C" PSC,C-PI PIPëPjP°PiP°P»PsCÍCÍ PiPsCÍC,C-PNëPSPμ P·P°CÍC,PScÍPsPICÍPIP°PSPSCÍ
PSP°PNëPjPμPSC€PsC— PμC,,PμPeC,PëPIPSPsC— PrPsP·Pë
P°PSC,PëPiP°CTjPeC-PSCÍPsPSC-C†PSPëC... P»C-PeP°CTjCÍCHPePëC... P·P°CÍPsP±C-PI
(P°PiPsPSC-CÍC,C-PI PrPsPiP°PjC-PSCÍ), P° C,P°PePsP¶ P·P°CÍC,PScÍPsPICÍPIP°PSPSCÍ
C,PëC... CÍP°PjPëC... P°PSC,PëPiP°CTjPeC-PSCÍPsPSC-C†PSPëC... P»C-PeP°CTjCÍCHPePëC...
P·P°CÍPsP±C-PI C- PrPsP· PiCTjPsC,CÍPiPsPj CÍCÍCHPsPiPs PrPsCÍP»C-PrP¶PμPSPSCÍ.
PǵPμCTjP°PiC-Cñ PsP»P°PSP·P°PiC-PSPsPj P±CÍP»Ps CTjPsP·PiPsC†P°C,Ps P· PrPsP·Pë 2,5
PjPi/PrPsP±CÍ, CÍPeCÍ P·P±C-P»CHC€CÍPIP°P»Pë C€P»CÍC...PsPj C,PëC,CTjCÍPIP°PSPSCÍ PrPs

PjP°PeCfPëPjP°P»CHbPSPsPiPs PiPsPeP°P·PSPëPeP° 15 PjPi/PrPsP±Cf.

PkPμPNëCfPsP»PμPiC,PëC±PSPëPNë P·P»PsCfPeC-CfPSPëPNë CfPëPSPrCfPsPj.
PkPμPNëCfPsP»PμPiC,PëC±PSPëPNë P·P»PsCfPeC-CfPSPëPNë CfPëPSPrCfPsPj (PkP—PŸ) bñ“
C†Pμ PiPsC,PμPSC†C-PNëPSPs P»PμC,P°P»CHbPSPëPNë
CfPëPjPiC,PsPjPsPePsPjPiP»PμPeCf, PsPiPëCfP°PSPëPNë Cr P·PIbñ™ CfP·PeCr P·
P°PSC,PëPiCfPëC...PsC,PëC±PSPëPjPë PiCfPμPiP°CfP°C,P°PjPë. P C-PrPePs
PiPsPIC-PrPsPjP»CfP»PsCfCf PiCfPs PiPëPiP°PrPePë PkP—PŸ, PiPsPIbñ™ CfP·P°PSC-
C-P· P·P°CfC,PsCfCrPiP°PSPSCfPj PsP»P°PSP·P°PiC-PSCf. PñP»C-PSC-C±PSPëPjPë
PiCfPsCfPiP°PjPë PkP—PŸ C” PiC-PiPμCfPiC-CfPμPeCfC-Cf, Pjñ™ CfP·PsPiP°
CfPëPiC-PrPSC-CfC,CH, PIC,CfP°C,P° CfPIC-PrPsPjPsCfC,C- C,P° CfPëPjPiC,PsPjPë
CfPμCfC†PμPiPsC— PSPμCfC,P°P±C-P»CHbPSPsCfC,C- (PSPμCfPμPiCrP»CfCfPSC-
PiCrP»CHCf P°P±Ps P·PjC-PSP° P°CfC,PμCfC-P°P»CHbPSPsPiPs C,PëCfPeCr,
C,P°C...C-PeP°CfPrC-Cf, PiC-PrPiPëC%PμPSPμ PiPsC,PsPiPëPrC-P»PμPSPSCf C,P°
CfPμCfC†PμPiP° P°CfPëC,PjC-Cf). P”PsPrP°C,PePsPIC- PsP·PSP°PePë PjPsP¶CrC,CH
PiPeP»CHC†P°C,Pë PiC-PrPiPëC%PμPSPëPNë CfC-PIPμPSCb
PeCfPμP°C,PëPSC-PSC,,PsCfC,,PsPeC-PSP°P·Pë, PjC-PsPiP»PsP±C-PSCfCfC-CH
(CfP°P±PrPsPjC-PsP»C-P·) C,P° PiPsCfC,CfCr PSPëCfPePsPICf
PSPμPrPsCfC,P°C,PSC-CfC,CH. PñP»C-PSC-C±PSPëPNë PiCfPsCfPi PkP—PŸ P°P±Ps
PSP°CfPiPSC-CfC,CH PiC-PiPμCfC,PμCfPjC-C— P±PμP· PeP»C-PSC-C±PSPsPiPs
PiCfPsCfPICf PkP—PŸ PiPsC,CfPμP±CfC” PSPμPiP°PNëPSPsC— PIC-PrPjC-PSPë
PICfC-C... P°PSC,PëPiCfPëC...PsC,PëC±PSPëC... P·P°CfPsP±C-PI, PiPeP»CHC†P°CfC†Pë
PsP»P°PSP·P°PiC-PS.

P”C-PiPμCfPiP»C-PePμPjC-Cf C- C†CzPeCfPsPiPëPNë PrC-P°P±PμC,.

PkPμC†P°CfC,Ps PiPsPIC-PrPsPjP»CfP»Pë PiCfPs PiC-PiPμCfPiP»C-PePμPjC-CH
C,P°/P°P±Ps CfPsP·PiPëC,PsPe C†CrPeCfPsPiPsPiPs PrC-P°P±PμC,Cr P°P±Ps
PiPsPIC-CfC€PμPSPSCf PiPμCfPμP±C-PiCr PiP¶Pμ C-CfPSCfCHC†PsPiPs,
P°CfPsC†C-PNëPsPiP°PSPsPiPs P· PePμC,PsP°C†PëPrPsP·PsPj P°P±Ps PrC-P°P±PμC,PëC±PSPsCH
PePsPjPsCH, P° C,P°PePsP¶ PiCfPs P»PμC,P°P»CHbPSC- PiPëPiP°PrPePë. P†PSPsPrC-
PiPsPIC-PrPsPjP»CfP»PsCfCf PiCfPs PiPsPiPμCfPμPrPSC” PiC-PrPiPëC%PμPSPSCf PjP°CfPë
C,C-P»P°, C%Ps PjPsPiP»Ps P±CfC,Pë C,,P°PeC,PsCfPsPj CfPëP·PëPeCr.

P PμPePsPjPμPSPrPsPiP°PSPs PiCfPsPiPsPrPëC,Pë PIC-PrPiPsPIC-PrPSPëPNë
PeP»C-PSC-C±PSPëPNë PjPsPSC-C,PsCfPëPSPi PiP°C†C-C”PSC,C-PI C-P·
C†CrPeCfPsPiPëPj PrC-P°P±PμC,PsPj C,P° PiP°C†C-C”PSC,C-PI P· C,,P°PeC,PsCfP°PjPë
CfPëP·PëPeCr CfPsP·PiPëC,PeCr C†CrPeCfPsPiPsPiPs PrC-P°P±PμC,Cr, P·PsPeCfPμPjP°
PiPëPjC-CfCHPiP°C,Pë CfC-PIPμPSCb PiP»CHPePsP·Pë PI PeCfPsPIC- PSP° PiPsC†P°C,PeCr
P»C-PeCrPiP°PSPSCf, C†PμCfPμP· 12 C,PëP¶PSC-PI, P° C,P°PePsP¶ C%PsCfC-C±PSPs Cr
PiPsPrP°P»CHC€PsPjCr. PμP°C†C-C”PSC,Pë, CfPeC- PsC,CfPëPjCrCHC,CH
P»C-PeCrPiP°PSPSCf P°PSC,PëPiCfPëC...PsC,PëC±PSPëPjPë P·P°CfPsP±P°PjPë,
PiPeP»CHC†P°CHC†Pë PsP»P°PSP·P°PiC-PS, PiPsPiPëPSPSC- P±CfC,Pë PiC-Pr PSP°PiP»CfPrPsPj
CfC,PsCfPsPiPSPs PiCfPsCfPIC-PI PsP·PSP°Pe C,P° CfPëPjPiC,PsPjC-PI
PiC-PiPμCfPiP»C-PePμPjC-C— (C,P°PePëC... CfPe PiPsP»C-PrPëPiCfC-Cf, PiPsP»C-CfCfC-Cf,
PiPsP»C-C,,P°PiC-Cf C,P° CfP»P°P±PeC-CfC,CH). PμP°C†C-C”PSC,C-PI P· C†CrPeCfPsPiPëPj
PrC-P°P±PμC,PsPj C,P° PiP°C†C-C”PSC,C-PI P· C,,P°PeC,PsCfP°PjPë CfPëP·PëPeCr
CfPsP·PiPëC,PeCr PrC-P°P±PμC,Cr PSPμPsP±C...C-PrPSPs CfPμPiCrP»CfCfPSPs
PePsPSC,CfPsP»CHPiP°C,Pë C%PsPrPs PiPsPiC-CfC€PμPSPSCf CfC-PIPSCf

PePsPSC, C₇H₅PsP»C₇H PiP»C₇HPePsP·Pë. PŸP»C-Pr C₇H₅P_μPiC₇P»C₇HC₇PSPs
PePsPSC, C₇H₅PsP»C₇HPIP° C, Pë PjP° C₇ C₇ C-P»P°, PSP° PiC₇H₅PëPeP»P°Pr, PSP° PiPsC₇P° C, PeC₇
P»C-PeC₇PIP°PSPSC₇, C₇P_μC₇H₅P_μP· 4 C, PëP₇PSC-, C₇P_μC₇H₅P_μP· 8 C, PëP₇PSC-PI C, P° C₇P_μC₇H₅P_μP·
12 C, PëP₇PSC-PI, P° C, P°PePsP₇ PsPrPëPS C₇H₅P°P· PSP° PePIP°C₇C, P°P» C₇
PiPsPrP°P»CHC₇PsPjC₇.

P—PjC-PSPë C₇H₅C-PIPSCL P»C-PiC-PrC-PI. P₇P_μP±P°P₇P°PSC- P·PjC-PSPë C₇H₅C-PIPSCL
P»C-PiC-PrC-PI C₇PiPsC₇C, P_μC₇H₅C-PiP°P»PëC₇C₇ C₇ PiP°C₇C-C°PSC, C-PI, C₇IPeC-
PsC, C₇H₅PëPjC₇PIP°P»Pë PsP»P°PSP·P°PiC-PS C₇ PiP»P°C₇P_μP±Ps-
PePsPSC, C₇H₅PsP»CH₅PsPIP°PSPëC... PeP»C-PSC-C₇PSPëC... PIPëPiC₇H₅PsP±C₇PIP°PSPSC₇C....
P—PjC-PSPë C₇H₅C-PIPSCL P»C-PiC-PrC-PI C₇P»C-Pr PePsC₇H₅P_μPiC₇PIP° C, Pë PSP°P»P_μP₇PSPëPj
C₇PëPSPsPj C₇ PiP°C₇C-C°PSC, C-PI C-P· PrPëC₇P»C-PiC-PrP_μPjC-C°C₇ C, P° C₇
PiP°C₇C-C°PSC, C-PI C-P· C₇, P°PeC, PsC₇H₅P°PjPë C₇H₅PëP·PëPeC₇ C₇PsP·PIPëC, PeC₇
PiPsC₇C₇C₇PsP_μPSCH₅ PsP±PjC-PSC₇ P»C-PiC-PrC-PI. P_μP°C₇C-C°PSC, P°Pj, C₇IPeC-
PsC, C₇H₅PëPjC₇C₇C, CH₅ P»C-PeC₇PIP°PSPSC₇ P°PSC, PëPiC₇PëC...PsC, PëC₇PSPëPjPë
P·P°C₇P_μP±P°PjPë, PIPeP»C₇H₅C₇P°C₇C₇Pë PsP»P°PSP·P°PiC-PS, PSP_μPsP±C...C-PrPSPs
C₇H₅P_μPiC₇P»C₇HC₇PSPs PePsPSC, C₇H₅PsP»C₇HPIP° C, Pë C₇H₅C-PIPSCL P»C-PiC-PrC-PI C₇
PeC₇PsPIC-, PSP°PiC₇H₅PëPeP»P°Pr, PSP° PiPsC₇P° C, PeC₇ P»C-PeC₇PIP°PSPSC₇, C₇P_μC₇H₅P_μP· 12
C, PëP₇PSC-PI, P° C, P°PePsP₇ PePsP₇PSC- 5 C₇H₅PsPeC-PI C₇ PiPsPrP°P»CHC₇PsPjC₇.

P₇H₅PSC, PëC...PsP»C-PSP_μC₇H₅PiC-C₇PSP° P°PeC, PëPIPSCL-C₇C, CH₅. Pj C...PsPrC-
PeP»C-PSC-C₇PSPëC... PrPsC₇P»C-PrP₇P_μPSCH₅ PIPëC₇PIP»P_μPSPs PSPëP·CH₅PeC₇
C₇P°C₇C, PsC, C₇ P°PSC, PëC...PsP»C-PSP_μC₇H₅PiC-C₇PSPëC... C₇IPIPëC%. P₇H₅PrPSP°Pe
C₇P_μC₇H₅P_μP· PsP±PjP_μP₇P_μPSC-C₇C, CH₅ PeP»C-PSC-C₇PSPsPiPs PrPsC₇PIP-PrC₇
P·P°C₇C, PsC₇C₇PIP°PSPSC₇ PsP»P°PSP·P°PiC-PSC₇ PiP°C₇C-C°PSC, P°Pj C-P·
C₇C₇PiC₇C, PSC-PjPë P·P°C...PIP₇C₇H₅PIP°PSPSC₇PjPë C₇P»C-Pr P±C₇C, Pë
PsP±P_μC₇H₅P_μP₇PSPëPjPë PiC₇H₅Pë PiC₇H₅PëP·PSP°C₇P_μPSPSC- PiC₇H₅P_μPiP°C₇P° C, C₇
PiP°C₇C-C°PSC, P°Pj C-P· PiC-PiP_μC₇H₅C, C₇PsC₇, C-C°C₇ PiC₇PsC₇C, P° C, Pë,
PiP°C₇P°P»C-C, PëC₇PSPsC₇ PePëC₇PePsPIP₇C₇ PSP_μPiC₇PsC...C-PrPSC-C₇C, C₇
P°P±Ps PiPsPrC-P±PSPëPjPë C₇C, P°PSP°PjPë.

P_μPsPeP°P·PSPëPePë PiP_μC₇C-PSPePsPIPsC— C₇, C₇PSPeC₇C-C—. P_μC₇H₅Pë
P·P°C₇C, PsC₇C₇PIP°PSPSC- PsP»P°PSP·P°PiC-PSC₇ C₇P°C₇C, Ps
C₇PiPsC₇C, P_μC₇H₅C-PiP°P»PëC₇C₇ C, C₇H₅P°PSP·PëC, PsC₇H₅PSC-
P°C₇PëPjPiC, PsPjP° C, PëC₇PSC- PiC-PrP_μPsPjPë C₇H₅C-PIPSCL PiP_μC₇C-PSPePsPIPëC...
C, C₇H₅P°PSC₇P°PjC-PSP°P· P₇H₅P»P₇P₇ C, P° P₇C₇P₇P₇, PsC₇PsP±P»PëPIPs PSP°
PiPsC₇P° C, PeC₇ P»C-PeC₇PIP°PSPSC₇. P_μP°C₇C-C°PSC, P°Pj C-P·
PiC-PrPIPëC%P_μPSPëPj C₇H₅C-PIPS_μPj P₇H₅P»P₇P₇ C, P°/C₇Pë P₇H₅P»P₇P₇, PsP·PSP°PeP°PjPë
C, P° C₇PëPjPiC, PsPjP°PjPë PiPsC₇C₇C₇PsPSC₇ C₇, C₇PSPeC₇C-C— PiP_μC₇C-PSPePë,
PiP°C₇C-C°PSC, P°Pj C-P· PiPsPiP_μC₇H₅P_μPrPSCH₅Ps C-C₇PSC₇C₇C₇PëPjPë
C₇C, P°PSP°PjPë, PiPsPiP₇™ C₇IP·P°PSPëPjPë P· PsP±PjP_μP₇P_μPSPëPj
C₇, C₇PSPeC₇C-PsPSP°P»CH₅PSPëPj C₇H₅P_μP·P_μC₇H₅PIPsPj PiP_μC₇C-PSPePë, P° C, P°PePsP₇
PiP°C₇C-C°PSC, P°Pj, C₇IPeC- PiC₇H₅PëP_μPjP°C₇C, CH₅ PiPsC, P_μPSC₇C-PN₇PSPs
PiP_μPiP° C, PsC, PsPeC₇PëC₇PSC- PiC₇H₅P_μPiP°C₇P° C, Pë, PsP»P°PSP·P°PiC-PS
PiC₇H₅PëP·PSP°C₇P°C₇C, CH₅ P· PsP±P_μC₇H₅P_μP₇PSC-C₇C, C₇. P_μC₇H₅Pë
PIPëC₇PIP»P_μPSPSC- PiP_μPiP° C, PëC, C₇ (PIPeP»C₇H₅C₇P°C₇C₇Pë
PiP_μPiP° C, PsC₇P_μP»C₇H₅P»C₇HC₇PSP_μ, C...PsP»P_μC₇C, P° C, PëC₇PSP_μ P°P±Ps
P·PjC-C₇P°PSP_μ C₇C₇P°P₇P_μPSPSC₇ PiP_μC₇C-PSPePë) PsP»P°PSP·P°PiC-PS
PSP_μPsP±C...C-PrPSPs PIC-PrPjC-PSPëC, Pë.

$P\check{Y}C\check{H}PsPjP\pm PsP\mu PjP\pm PsP\rangle C-C\check{U}$. $\acute{P}\acute{K}P\mu C\ddagger P^{\circ}C\acute{I}C$, Ps $\ddot{P}\ddot{i}PsPIC-PrPsPjP\rangle C\check{U}P\rangle PsC\acute{I}C\check{U}$ $\ddot{P}\ddot{i}C\check{H}Ps$
 $C, \ddot{P}\ddot{e}PjC\ddagger P^{\circ}C\acute{I}PsPIP\ddot{e}Pn_{\ddot{e}}$ $P\cdot PIb\check{H}^{\text{TM}}C\check{U}P\cdot PsPe$ $PjC-P\P$ $P\rangle C-PeCrPIP^{\circ}PSPSC\check{U}Pj$
 $PsP\rangle P^{\circ}PSP\cdot P^{\circ}\ddot{P}\ddot{i}C-PSPsPj$ C, P° $PIP\ddot{e}\ddot{P}\ddot{i}P^{\circ}PrPeP^{\circ}PjP\ddot{e}$ $C\check{H}PsP\cdot PIP\ddot{e}C, PeCr$ $PIP\mu PSPsP\cdot PSPsC-$
 $C, C\check{H}PsPjP\pm PsP\mu PjP\pm PsP\rangle C-C- (\geq 0,1\% \text{ в}\check{H}^{\text{TM}} < 1\%)$. $P\mu C\check{H}P\ddot{e}C\ddagger P\ddot{e}PSPSPs-$
 $PSP^{\circ}C\acute{I}P\rangle C-PrPePsPIPsPiPs$ $P\cdot PIb\check{H}^{\text{TM}}C\check{U}P\cdot PeCr$ $PjC-P\P$ $P\rangle C-PeCrPIP^{\circ}PSPSC\check{U}Pj$
 $PsP\rangle P^{\circ}PSP\cdot P^{\circ}\ddot{P}\ddot{i}C-PSPsPj$ C, P° $C\check{H}PsP\cdot PIP\ddot{e}C, PePsPj$ $PIP\mu PSPsP\cdot PSPsC-$
 $C, C\check{H}PsPjP\pm PsP\mu PjP\pm PsP\rangle C-C- PSP\mu$ $PIC\acute{I}C, P^{\circ}PSPsPIP\rangle P\mu PSPs$. $PhPrPSP^{\circ}Pe, P\pm P\mu C\check{H}CrC\ddagger P\ddot{e}$
 $PrPs$ $CrPIP^{\circ}PiP\ddot{e}$ $C, P\mu, C\%_{\text{oo}}Ps$ Cr $\ddot{P}\ddot{i}P^{\circ}C\ddagger C-C''PSC, C-PI$ $C-P$ $C\ddot{e}P\ddot{e}P\cdot PsC,, C\check{H}P\mu PSC-C''C\check{H}$
 $C\ddagger P^{\circ}C\acute{I}C, Ps$ $C\check{H}PsP\cdot PIP\ddot{e}PIP^{\circ}C''C, C\check{H}C\acute{I}C\check{U}$ $C\acute{I}C...P\ddot{e}P\rangle C\check{H}PSC-C\acute{I}C, C\check{H}$ $PrPs$

C, C₇PsPjP±PsPμPjP±PsP»C-C—, PSPμPsP±C...C-PrPSPs PIC₇P°C...PsPICrPIP°C, Pë C₇C₇C-
PjPsP₇P»PëPIC- C,, P°PeC, PsC₇Pë C₇PëP·PëPeC₇, PSP°P₇C₇PëPeP»P°Pr,
C-PjPjPsP±C-P»C-P·P°C₇C-C₇ P₇P°C₇C-C₇PSC, P°, C, P° PIP₇PëPIP°C, Pë PIC₇C-C...
PSPμPsP±C...C-PrPSPëC... P₇PsP₇μC₇PμPrP₇CrPIP°P»CH₇PSPëC... P·P°C...PsPrC-PI.

P—P°P₇P°P»CH₇PSP° PrC-C₇ PSP° P₇P₇P₇. P₇C₇P°C...PsPIC₇C₇C±Pë P₇μC₇PμPIP°P₇PSPëPN₇
PIP₇P»PëPI PsP»P°PSP·P°P₇C-PSC₇ PSP° P₇P₇P₇, PSPμPsP±C...C-PrPSPs
P₇C₇PsPIP₇PrPëC, Pë PrPsPrP°C, PePsPIC- P·P°C₇C, PμC₇PμP₇PSC- P·P°C...PsPrPë P₇C₇Pë
P₇C₇PëPN₇PsPjC- PsP»P°PSP·P°P₇C-PSC₇ C₇P°P·PsPj P· C-PSCëPëPjPë
P₇C₇PμP₇P°C₇P°C, P°PjPë C₇PμPSC, C₇P°P»CH₇PSPsC— PrC-C—, PIPeP»C₇C±P°C₇C±Pë
PIP₇PëPIP°PSPSC₇ P°P»PePsP₇PsP»C₇. PhP»P°PSP·P°P₇C-PS *in vitro* PIPëC₇PIP»C₇C₇
P°PSC, P°P₇PsPSC-P·Pj PrPs PrPsP₇P°PjC-PSC₇ C, P° PjPsP₇μ P₇C₇PsC, PëPrC-C₇C, Pë
PμC,, PμPeC, P°Pj P₇C₇C₇PjPëC... C- PSPμP₇C₇C₇PjPëC... P°P₇PsPSC-C₇C, C-PI PrPsP₇P°PjC-PSC₇.

P·P₇C-P»PμP₇C, PëC±PSC- PSP°P₇P°PrPë. PhP»P°PSP·P°P₇C-PS PSPμPsP±C...C-PrPSPs P·
PsP±PμC₇PμP₇PSC-C₇C, C₇ P·P°C₇C, PsC₇PsPICrPIP°C, Pë P₇P°C₇C-C₇PSC, P°Pj P·
PμP₇C-P»PμP₇C, PëC±PSPëPjPë PSP°P₇P°PrP°PjPë PI P°PSP°PjPSPμP·C- P°P±Ps
P₇P°C₇C-C₇PSC, P°Pj, C±C₇C, P»PëPIPëPj PrPs C,, P°PeC, PsC₇C-PI, C%Ps
P·PSPëP₇CrC₇C, CH₇ P₇PsC₇C-Pi C₇CrPrPsPjPSPsC— P₇PsC, PsPIPSPsC₇C, C-.
P₇μC±P°C₇C, Ps P₇PsPIC-PrPsPjP»C₇P»PsC₇C₇ P₇C₇Ps PIPëP₇P°PrPePë
PμP₇C-P»PμP₇C, PëC±PSPëC... PSP°P₇P°PrC-PI P₇C₇Pë P»C-PeC₇PIP°PSPSC-
PsP»P°PSP·P°P₇C-PSPsPj. Pj P±C-P»CH₇CëPsC₇C, C- C₇PëC... PIPëP₇P°PrPeC-PI P₇P°C₇C-C₇PSC, Pë
PjP°P»Pë PI P°PSP°PjPSPμP·C- PμP₇C-P»PμP₇C, PëC±PSC- PSP°P₇P°PrPë P°P±Ps C₇PëP·PëPe
C—C... PIPëPSPëPePSPμPSPSC₇ P±C₇PI P₇C-PrPIPëC%PμPSPëPN₇.

PμC-P·PSC₇ PrPëC₇PeC-PSPμP·C-C₇. Pj C...PsPrC- P₇PsC₇C-PIPSC₇P»CH₇PSPëC...
PeP»C-PSC-C±PSPëC... PrPsC₇P»C-PrP₇μPSC₇ C, C₇PëPIP°P»C-C₇C, C₇ PrPs PsPrPSPsP₇Ps
C₇PsPeC₇ P₇C₇PëPN₇PsPj PsP»P°PSP·P°P₇C-PSC₇ P°C₇PsC₇C-C₇PIP°PIC₇C₇ P·C-
C₇C, P°C, PëC₇C, PëC±PSPs P·PSP°C±C₇C%PëPj P·PSPëP₇μPSPSC₇Pj C±P°C₇C, PsC, Pë
PIPëPSPëPePSPμPSPSC₇ PrPëC₇PeC-PSPμP·C-C—, C₇P₇C₇PëC±PëPSPμPSPsC—
P»C-PeC₇PIP°PSPSC₇Pj. P₇μC₇PμP· P·C₇PsC₇C, P°C₇C±PëPN₇ C₇PëP·PëPe C₇PsP·PIPëC, PeC₇
P₇C-P·PSC₇PsC— PrPëC₇PeC-PSPμP·C-C— P₇C₇Pë C, C₇PëPIP°P»PsPjC₇ P₇C₇PëPN₇PsPjC-
P°PSC, PëP₇C₇PëC...PsC, PëC±PSPëC... P₇C₇PμP₇P°C₇P°C, C-PI PSPμPsP±C...C-PrPSPμ
C₇P·P₇PsPrP₇μPSPμ P·PSPëP₇μPSPSC₇ PrPsP·Pë P°P±Ps P₇PsPIPSP° PIC-PrPjC-PSP°
P₇C₇PμP₇P°C₇P°C, C₇ P₇C₇Pë P₇PsC₇PI- C₇ P₇P°C₇C-C₇PSC, P° PsP·PSP°Pe C±Pë
C₇PëPjP₇C, PsPjC-PI P₇C-P·PSC₇PsC— PrPëC₇PeC-PSPμP·C-C—. P— C±P°C₇PsPj C₇C-
C₇PëPjP₇C, PsPjPë PjPsP₇CrC, CH₇ P₇PsP₇C-C₇CëC₇PIP°C, PëC₇CH₇ P°P±Ps PSP°PIC-C, CH₇
P·B₇TM C₇PIP»C₇C, PëC₇C₇ P₇C-C₇P»C₇ P₇C₇PëP₇PëPSPμPSPSC₇ P»C-PeC₇PIP°PSPSC₇.

PhC₇C, PsC₇C, P°C, PëC±PSP° P₇C-P₇PsC, PμPSP·C-C₇. P₇μC±P°C₇C, Ps
P₇PsPIC-PrPsPjP»C₇P»PsC₇C₇ P₇C₇Ps PIPëP₇P°PrPePë PsC₇C, PsC₇C, P°C, PëC±PSPsC—
P₇C-P₇PsC, PμPSP·C-C— C₇ P₇P°C₇C-C₇PSC, C-PI P»C-C, PSC₇PsP₇Ps PIC-PeC₇ PI
C...PsPrC- PeP»C-PSC-C±PSPëC... PrPsC₇P»C-PrP₇μPSC₇. PμC-Pr C±P°C₇
P·P°C₇C, PsC₇CrPIP°PSPSC₇ PsP»P°PSP·P°P₇C-PSC₇ C₇PμPePsPjPμPSP₇CrC₇C, CH₇C₇C₇
P₇μC₇C-PrPëC±PSPμ PIPëPjC-C₇C₇PIP°PSPSC₇ P°C₇C, PμC₇C-P°P»CH₇PSPsP₇Ps C, PëC₇PeC₇
P₇P°C₇C-C₇PSC, P°Pj PIC-PePsPj PIC-Pr 65 C₇PsPeC-PI.B

P P°P₇C, PsPIP° C₇PμC₇C±PμPIP° C₇PjPμC₇C, CH₇. Pj P₇PsC₇C, PjP°C₇PePμC, PëPSP₇PsPIPëC...
P·PIC-C, P°C... P₇PsPIC-PrPsPjP»C₇P»PsC₇C₇ P₇C₇Ps PIPëP₇P°PrPePë C₇P°P₇C, PsPIP₇C—
C₇PμC₇C±PμPIP₇C— C₇PjPμC₇C, C-. P₇C-PrP₇PsPIC-PrPSPs PrPs

PIC-PrPjC-PSPë, CÍPëPjPíC,PsPjPë CÍPePëC... PjPsP¶CíC,CH PiC-CÍP»CÍ
PSP°CíPjPsPrP¶PµPSPSCÍ P·PjC-PSCíPíP°C,PëCÍCÍ P·P° CÍPëP»PsCí C,P°
C,CíPëPíPíP°P»C-CÍC,Cí. PµPsPIC-PrPsPjP»CÍP»Pë PíCíPjPs P°P¶PëC,P°C†C-Cí,
P°CíC,PµCíC-P°P»CHPSCí PiC-PíPµCíC,PµPSP·C-Cí, P°CíC,PµCíC-P°P»CHPSCí
PiC-PíPsC,PµPSP·C-Cí, C,CíPµPjPsCí, CÍPsPSP»PëPIC-CÍC,CH,
CíPµCÍPíC-CíP°P,PsCíPSPëPñ PrPëCÍC,CíPµCÍ-CÍPëPSPíCíPjPs P°P±Ps CíPjPsP·P»P°Pr
C...P°CíC†CíPíP°PSPSCÍ. PýPsPjCí PSPµPsP±C...C-PrPSPs CíPµC,PµP»CHPSPs
PePsPSC,CíPjPsP»CíPíP°P,Pë CÍC,P°PS PSPsPíPSPSP°CíPjPsPrP¶PµPSPëC....

PµPµCíC-PsPr PiPsPrCíPíP°PSPSCÍ PiCíCíPrPrCí

PµCíPë PrPsCÍP»C-PrP¶PµPSPSC- P·PrPsCíPjPsPíPëC... P¶C-PSPsPe, CÍPeC- PiPsPrCíPíP°P»Pë
PiCíCíPrPrCí, PsP»P°PSP·P°PíC-PS P±CíP»Ps PíPëCÍPíP»PµPSPs Cí PiCíCíPrPSPsPjCí
PjPsP»PsC†C-. PýPµCíPµPrPSCÍ PrPsP·P° PrP»CÍ PSPµPjPsPíP»CÍC,Pë (PjPi/PePi) P±Pµ·
CíPëP·PëPeCí PrP»CÍ PSCíPjPsPíPs PsC†C-PSCíPíP°P»P°CÍCÍ CÍPe 1,8 %
PjP°P,CµCíPëPSCÍCHPePsC— PrPsP·Pë (PjPi/PePi). PµP°C†C-C”PSC,PeP°Pj
CíPµPePsPjPµPSPíCíC”C,CHCÍCÍ PSPµ PiPsPrCíPíP°P,Pë PSPµPjPsPíP»CÍC, PiCíCíPrPrCí,
CÍPeC%Ps PíPSPë PíCíPëPñPjP°CíC,CH PsP»P°PSP·P°PíC-PS.

PµPµCíC,PëP»CHPSC-CÍC,CH

P°PíP»PëPI PSP° C,,PµCíC,PëP»CHPSC-CÍC,CH PSPµPIC-PrPsPjPëPñ.

*P—PrP°P,PSC-CÍC,CH PíPíP»PëPíP°P,Pë PSP° C¶PíPëPrPeC-CÍC,CH CíPµP°PeC†C-C— PíCíPë
PePµCíCíPíP°PSPSC- P°PIC,PsC,CíP°PSCíPíPsCíC,PsPj P°P±Ps C-PSC¶PëPjPë
PjPµC...P°PSC-P·PjP°PjPë.*

P”PsCÍP»C-PrP¶PµPSCí PíPíP»PëPíCí PsP»P°PSP·P°PíC-PSCí PSP° C¶PíPëPrPeC-CÍC,CH
CíPµP°PeC†C-C— PíCíPë PePµCíCíPíP°PSPSC- P°PIC,PsC,CíP°PSCíPíPsCíC,PsPj P°P±Ps
CíPjPsP±PsC,C- P· C-PSC¶PëPjPë PjPµC...P°PSC-P·PjP°PjPë PSPµ PíCíPjPsPíPsPrPëP»Pë.
PíCíPeC-P»CHPePë PsP»P°PSP·P°PíC-PS PjPsP¶Pµ CÍPíCíPëC†PëPSPëC,Pë
CÍPsPSP»PëPIC-CÍC,CH C,P° P·P°PíP°PjPsCíPjPsC†PµPSPSCÍ, PíP°C†C-C”PSC,C-PI CÍP»C-Pr
PíPsPíPµCíPµPrPëC,Pë PíCíPjPs PSPµP±PµP·PíPµPeCí, PíPsPíPñ™ CÍP·P°PSCí P·
PµPeCíPíP»CíP°P,P°C†C-C”Cí PjPµC...P°PSC-P·PjC-PI, Cí C,.C†.
P°PIC,PsC,CíP°PSCíPíPsCíC,PSPëC... P·P°CÍPsP±C-PI.

PýPíPsCíC-P± P·P°CÍC,PsCíCíPíP°PSPSCÍ C,P° PrPsP·Pë.

P”PsCíPjPsCÍP»C-.

*PëPëP·PsC,,CíPµPSC-CÍ. P PµPePsPjPµPSPíPíPíP°PSP° PíPsC†P°P,PePsPíP° PrPsP·P°
PsP»P°PSP·P°PíC-PSCí CÍC,P°PSPsPíPëC,CH 10 PjPi PsPrPëPS CíP°P· PSP° PrPsP±Cí.*

*PíP°PSC-P°PeP°P»CHPSC- PµPíC-P·PsPrPë. P PµPePsPjPµPSPíPíPíP°PSP°
PíPsC†P°P,PePsPíP° PrPsP·P° PsP»P°PSP·P°PíC-PSCí CÍPe PjPsPSPsC,PµCíP°PíC-C—
CÍC,P°PSPsPíPëC,CH 15 PjPi PSP° PrPsP±Cí P°P±Ps 10 PjPi PSP° PrPsP±Cí PíCíPë
PePsPjP±C-PSPsPíP°PSPsPjCí P»C-PeCíPíP°PSPSC- (PrPëPI. CíPjPsP·PrC-P»
B«PµP°CíPjP°PePsP»PsPiC-C†PSC- PíP»P°CÍC,PëPíPsCíC,C-B»).*

*PμCḡPsC,,C-P»P°PeC,PëPeP° PīPsPIC,PsCḡPSPëC... PSP°PīP°PrC-PI Cž PīP°C†C-C''PSC,C-PI P·
P±C-PīPsP»CḡCḡPSPëPjPë CḡPsP·P»P°PrP°PjPë. P PμPePsPjPμPSPPrPsPIP°PSP°
PīPsC±P°C,PePsPIP° PrPsP·P° CḡC,P°PSPsPIPëC,CH 10 PjPi PSP° PrPsP±Cḡ.
PμP°C†C-C''PSC,Pë P· P±C-PīPsP»CḡCḡPSPëPjPë CḡPsP·P»P°PrP°PjPë, CḡPeC-
PsC,CḡPëPjCḡPIP°P»Pë PsP»P°PSP·P°PīC-PS PrP»Cḡ P»C-PeCḡPIP°PSPSCḡ
PjP°PSC-P°PeP°P»CHbPSPëC... PμPīC-P·PsPrC-PI, PīCḡPsPrPsPIP°CḡCḡC,CH
PsC,CḡPëPjCḡPIP°C,Pë PsP»P°PSP·P°PīC-PS Cḡ C,PsPjCḡ Pḡ PrPsP·CḡPIP°PSPSC- C-
PrP»Cḡ PīCḡPsC,,C-P»P°PeC,PëPePë PīPsPIC,PsCḡPSPëC... PSP°PīP°PrC-PI. P—P°
CḡPjPsPIPë CḡPsP·PIPëC,PeCḡ PSPsPIPsPiPs PjP°PSC-P°PeP°P»CHbPSPsPiPs,
PrPμPīCḡPμCḡPëPIPSPsPiPs P°P±Ps P·PjC-CëP°PSPsPiPs PμPīC-P·PsPrCḡ
P»C-PeCḡPIP°PSPSCḡ PSPμPsP±C...C-PrPSPs PīCḡPsPrPsPIP°CḡPIP°C,Pë (P·P°
PSPμPsP±C...C-PrPSPsCḡC,C- PsPīC,PëPjC-P·CḡPIP°PICëPë PrPsP·Cḡ) CḡP°P·PsPj C-P·
PīC-PrC,CḡPëPjCḡPIP°P»CHbPSPsCḡ C,PμCḡP°PīC-C''Cḡ PrP»Cḡ P»C-PeCḡPIP°PSPSCḡ
CḡPëPjPīC,PsPjC-PI PīPsCḡCḡCëPμPSPSCḡ PSP°CḡC,CḡPsCḡ, CḡPeC%Ps C'' PeP»C-PSC-C±PSP°
PSPμPsP±C...C-PrPSC-CḡC,CH.*

*P»C-PeCžPIP°PSPSCḡ CëPëP·PsC,,CḡPμPSC-C—, PjP°PSC-P°PeP°P»CHbPSPëC... PμPīC-P·PsPrC-PI
C,P° PīPsPīPμCḡPμPrPḡPμPSPSCḡ CḡPμC†PëPrPëPIC-PI P±C-PīPsP»CḡCḡPSPsPiPs
CḡPsP·P»P°PrCž. P©PsPrPμPSPSCḡ PrPsP·Cḡ PIPëP·PSP°C±P°CḡC,CH PSP°
PīC-PrCḡC,P°PIC- PeP»C-PSC-C±PSPsPiPs CḡC,P°C,CḡCḡCḡ PI PrC-P°PīP°P·PsPSC-
PIC-Pr 5 PrPs 20 PjPi PSP° PrPsP±Cḡ. P—P±C-P»CHbCëPμPSPSCḡ
CḡPμPePsPjPμPSPPrPsPIP°PSPsC— PīPsC±P°C,PePsPIPsC— PrPsP·Pë CḡP»C-Pr
PīCḡPsPIPsPrPëC,Pë P· C-PSC,PμCḡPIP°P»P°PjPë PSPμ PjPμPSCëPμ 24 PīPsPrPëPS
P»PëCëPμ PīC-CḡP»Cḡ PeP»C-PSC-C±PSPsPiPs PsP±CḡC,PμPḡPμPSPSCḡ.
PhP»P°PSP·P°PīC-PS PjPsPḡPSP° P·P°CḡC,PsCḡPsPICḡPIP°C,Pë PSPμP·P°P»PμPḡPSPs PIC-Pr
PīCḡPëPNëPsPjCḡ C—PḡC—, PsCḡPeC-P»CHbPePë PIPḡPëPIP°PSPSCḡ C—PḡC- PSPμ
PIPīP»PëPIP°C'' PSP° P°P±CḡPsCḡP±C†C-Cḡ PīCḡPμPīP°CḡP°C,Cḡ. PμCḡPë
PIC-PrPjC-PSC- PīCḡPμPīP°CḡP°C,Cḡ P·P°PIPμCḡCëPμPSPSCḡ C,PμCḡP°PīC-C—
PīPsC,CḡC-P±PSPs PīCḡPsPIPsPrPëC,Pë PīPsCḡC,CḡPīPsPIP.*

*PμP°C†C-C''PSC,Pë P»C-C,PSCHbPsPiPs PIC-PeCž. PμCḡPëP·PSP°C±PμPSPSCḡ PjPμPSCëPsC—
PīPsC±P°C,PePsPIPsC— PrPsP·Pë (5 PjPi PSP° PrPsP±Cḡ) P·P°P·PIPëC±P°PNë PSPμ
PīPsC,CḡC-P±PSPμ. PëPμPsP±C...C-PrPSC-CḡC,CH PīCḡPëP·PSP°C±PμPSPSCḡ
PjPμPSCëPsC— PīPsC±P°C,PePsPIPsC— PrPsP·Pë PīPsC,CḡC-P±PSPs
CḡPsP·PiP»CḡPrP°C,Pë PrP»Cḡ PīP°C†C-C''PSC,C-PI PIC-PePsPj PIC-Pr 65 CḡPsPeC-PI
P·P° PSP°CḡPIPSPsCḡC,C- PeP»C-PSC-C±PSPëC... PīPsPeP°P·P°PSCḡ (PrPëPI.
CḡPsP·PrC-P» B«PhCḡPsP±P»PëPIPSCḡC,C- P·P°CḡC,PsCḡCḡPIP°PSPSCḡB»).*

*PμP°C†C-C''PSC,Pë P· PSPëCḡPePsPIPSCḡ C,P°/P°P±Ps PīPμC±C-PSPePsPIPSCḡ
PSPμPrPsCḡC,P°C,PSC-CḡC,Cḡ. PhPμPSCëCḡ PīPsC±P°C,PePsPICḡ PrPsP·Cḡ (5 PjPi PSP°
PrPsP±Cḡ) PjPsPḡPSP° PīCḡPëP·PSP°C±P°C,Pë C,P°PePëPj PīP°C†C-C''PSC,P°Pj. P—P°
PSP°CḡPIPSPsCḡC,C- PīPsPjC-CḡPSPsC— PīPμC±C-PSPePsPIPSC—
PSPμPrPsCḡC,P°C,PSPsCḡC,C- (C†PëCḡPsP·, PeP»P°CḡPë PSPμPrPsCḡC,P°C,PSPsCḡC,C- Ph
P°P±Ps P' P·P° CëPeP°P»PsCḡ PšP°PNëP»PrP°-Pμbḡ™Cḡ) PīPsC±P°C,PePsPIP° PrPsP·P°
PīPsPIPëPSPSP° CḡC,P°PSPsPIPëC,Pë 5 PjPi C- PīC-PrPIPëC%CḡPIP°C,Pë PrPsP·Cḡ
PSPμPsP±C...C-PrPSPs P· PsP±PμCḡPμPḡPSC-CḡC,Cḡ.*

*PμCžCḡC†C-. PμPsCḡPμPeC†C-Cḡ PrPsP·Pë P·P°P»PμPḡPSPs PIC-Pr
PSP°CḡPIPSPsCḡC,C- / PIC-PrCḡCḡC,PSPsCḡC,C- P·PIPëC±PePë PrPs PīP°P»C-PSPSCḡ PSPμ*

ΠΨC, CΨC-P±PSP°.

ΠCρCΨC-PSPSCΠ ΠΨPΠΠ CΓC, ΠΠCρP»CΨPIP°C, Π ΠΠC, P°P±PsP»C-P ΠΨP»P°PSP·P°ΠC-PSCρ. Π ΠΠΠΠΠΠΠPSPρPSP P·PρC-ΠCΓPSCΨPIP°C, Π ΠΠ»C-PSC-C±PSPΠΠ ΠΨPSC-C, PsCΨΠΠ, C- Cρ CΨP°P·C- PSPΠPsP±C...C-PρPSPSCΓC, C-CΓP»C-Pρ P·P±C-P»CΨCΠΠ, Π ΠρPsP·Cρ PsP»P°PSP·P°ΠC-PSCρ (PρΠΠ. CΨPsP·PρC-P» B«P·P·P°C”ΠΨPρC-CΠ P· C-PSCΠΠΠ P»C-ΠΠ°CΨCΓCΨΠΠΠ P·P°CΓPsP±P°ΠΠ C, P° C-PSCΠC- ΠΠΠ P·P°C”ΠΨPρC-ΠB»).

ΠΠΠPSCΠCρ ΠΨC±P°C, ΠΠΠCρ PρPsP·Cρ ΠΨPΠPSP° ΠCΨΠΠ·PSP°C±P°C, Π ΠP°C†C-C”PSC, P°Π P· ΠΠΠP±C-PSP°C†C-C”C C, P°ΠC, PsCΨC-Π (ΠC-PSPSC±P° CΓC, P°C, CΨ, P»C-C, PSC-Π ΠC-Π, ΠC-PρCΓC, PSC-CΓC, CΨ P·ΠΠC±ΠΠ PρPs ΠP°P»C-PSPSCΠ), CΠΠC- ΠΨPΠCΓC, CΨ P·PSPΠCρPIP°C, Π ΠΠC, P°P±PsP»C-P ΠΨPsP»P°PSP·P°ΠC-PSCρ. ΠC-PρΠΠC%ΠΠPSPSCΠ PρPsP·Π C, P°ΠΠΠ ΠP°C†C-C”PSC, P°Π, CΠΠC%Ps C†Π ΠΨΠΠP°P·P°PSPs, ΠΨC, CΨC-P±PSPs P·PρC-ΠCΓPSCΨPIP°C, Π ΠΨCΓC, CρΠΨΠPs, P· PsP±ΠCΨΠΠPSC-CΓC, CΨ (PρΠΠ. CΨPsP·PρC-P»Π B«P·P·P°C”ΠΨPρC-CΠ P· C-PSCΠΠΠ P»C-ΠΠ°CΨCΓCΨΠΠΠ P·P°CΓPsP±P°ΠΠ C, P° C-PSCΠC- ΠΠΠ P·P°C”ΠΨPρC-ΠB» C, P° B«P°CΨΠP°ΠΠ»PsΠC-C±PSC- ΠP»P°CΓC, ΠΠΠCΓC, C-B»).

P”C-C, Π.

P—P°CΓC, PsCΓCρPIP°PSPSCΠ PsP»P°PSP·P°ΠC-PSCρ PρC-C, CΠΠ C, P° ΠC-PρP»C-C, ΠP°Π (ΠC-ΠΠΠ PρPs 18 CΨPsΠC-Π) PSP ΠCΨΠΠΠΠΠPSPρPSP Cρ P·ΠBΨ™ CΠP·ΠCρ P· PSPΠPρPsCΓC, P°C, PSC-CΓC, CΨ PρP°PSPΠC... P· P±ΠP·ΠΠΠΠ C, P° ΠC, ΠΠΠC, ΠΠPSPSCΓC, C-. Π C...PsPρC- ΠΠCΨPsC, ΠΠSCΓC, CΨPsΠΠPIPΠC... PρPsCΓP»C-PρΠΠPSCΨ Cρ ΠP°C†C-C”PSC, C-Π ΠC-PρP»C-C, ΠΠΠPsΠPs ΠC-ΠCρ ΠC-PρP·PSP°C±P°P»PsCΓC Π·P±C-P»CΨCΠΠPSPSCΠ ΠP°CΓΠ C, C-P»P°, P·ΠC-PSP CΨC-ΠPSC-Π ΠCΨPsP»P°ΠC, ΠPSCρ C, P° P»C-ΠC-PρC-Π ΠΨCΨC-ΠPSCΠPSPs P· PρPsCΨPsCΓP»ΠΠΠ (PρΠΠ. CΨPsP·PρC-P»Π B«ΠCΓPsP±P»ΠΠPSCΓC, C- P·P°CΓC, PsCΓCρPIP°PSPSCΠB», B«ΠPsP±C-C±PSC- CΨΠP°ΠC†C-C—B» C, P° B«P°CΨΠP°ΠΠ»PsΠC-C±PSC- ΠP»P°CΓC, ΠΠΠCΓC, C-B»).

ΠΠΠCΨΠPρPsP·CζPIP°PSPSCΠ.

ΠΠΠΠΠC, PsΠΠ. P”CρΠΠ ΠΨCΠΠCΨΠPSC- (> 10 % ΠΠΠΠP°PρΠC-Π) BΨ” C, P°C...C-ΠP°CΨPρC-CΠ, P°ΠΠΠC, P°C†C-CΠ / P°ΠCΨΠCΓΠΠPSC-CΓC, CΨ, PρΠP·P°CΨC, CΨC-CΠ, CΨC-P·PSC- ΠΠCΓC, CΨP°ΠC-CΨP°ΠC-PρPSC- CΓΠΠΠC, PsΠΠ C, P° P·PSPΠΠΠPSPΠΠ CΨC-ΠΠPSC CΓΠC-PρPsΠPsCΓC, C-, C%Ps ΠP°CΨC-CΨ”C, CΨCΓC ΠC-Pρ CΓΠPρP°C†C-C— PρPs ΠΠΠΠ.

P†PSCΠΠΠ P·PSP°C±PSPΠΠ CρCΓΠP»P°PρPSPΠPSPSCΠΠ ΠΠCΨΠPρPsP·CρPIP°PSPSCΠ C” PρΠP»C-CΨC-Π, CΓCρPρPsΠΠ, ΠΠΠP°, ΠΨPΠP»ΠΠC-CΓC, CΨ CΨPsP·ΠΠC, ΠCρ PSPΠΠCΨPsP»ΠΠC, ΠC±PSPΠPs P·P»PsCΠΠC-CΓPSPsΠPs CΓΠPSPρCΨPsΠCρ, ΠCΨΠΠPSC-C±ΠPSPSCΠ PρΠC...P°PSPSCΠ, P°CΓΠC-CΨP°C†C-CΠ, P°CΨC, ΠCΨC-P°P»CΨPSP° ΠC-ΠΠCΨC, ΠPSP·C-CΠ P°P±Ps ΠC-ΠΨC, ΠPSP·C-CΠ, CΓΠCΨC†ΠΠP° P°CΨΠC, ΠC-CΠ (< 2 % ΠΠΠΠP°PρΠC-Π ΠΠCΨΠPρPsP·CρPIP°PSPSCΠ) C, P°

PeP°CḡPrC-PsPĩCfP»CHbPjPsPSP°P»CHbPSPëPNₑ CēPsPe. P>PμC,P°P»CHbPSC- PSP°CfP»C-PrPePë
PIC-PrP·PSP°C‡P°P»PëCfCḡ PĩCḡPë PiPsCfC,CḡPsPjCf PĩPμCḡPμPrPsP·CfPIP°PSPSC- PSP°
CḡC-PIPSC- 450 PjPi, P°P»Pμ P±CfP»Pë PNₑ PIPëPĩP°PrPePë PIPëP¶PëPIP°PSPSCḡ PĩC-CfP»Cḡ
PiPsCfC,CḡPsPiPs PĩPμCḡPμPrPsP·CfPIP°PSPSCḡ PĩC-CfP»Cḡ PĩCḡPëPNₑPsPjCf

2 Pi PsP»P°PSP·P°PĩC-PSCf PĩPμCḡPsCḡP°P»CHbPSPs.

P>C-PeCzPIP°PSPSCḡ. PŸPĩPμC†PëC,,C-C‡PSPëPNₑ P°PSC,PëPrPsC, PsP»P°PSP·P°PĩC-PSCf
PIC-PrCfCfC,PSC-PNₑ. PkPμ CḡPμPePsPjPμPSPPrCfCḡC,CHbCfCḡ PĩCḡPμPĩP°CḡP°C,Pë, C%Ps
CfPĩCḡPëC‡PëPSCḡCḡC,CHb P±P»CHbPIP°PSPSCḡ. P PμPePsPjPμPSPPrPsPIP°PSPs
CfC,P°PSPPr°CḡC,PSC- PĩCḡPsC†PμPrCfCḡPë PĩCḡPë PĩPμCḡPμPrPsP·CfPIP°PSPSC-
(PSP°PĩCḡPëPeP»P°Pr PĩCḡPsPjPëPIP°PSPSCḡ CēP»CfPSPeP°, PĩCḡPëPNₑPsPj
P°PeC,PëPIPsPIP°PSPsPiPs PICfPiC-P»P»Cḡ). P' CfP»Ps PIPëCḡPIP»PμPSPs, C%Ps
CfCfPiCfC,PSC-PNₑ PĩCḡPëPNₑPsPj P°PeC,PëPIPsPIP°PSPsPiPs PICfPiC-P»P»Cḡ P·PjPμPSCēCfC"
P±C-PsPrPsCfC,CfPĩPSC-CfC,CHb PsP»P°PSP·P°PĩC-PSCf PĩCḡPë PĩPμCḡPsCḡP°P»CHbPSPsPjCf
PĩCḡPëPNₑPsPjC- PSP° 50-60 %.

P'C-PrPĩPsPIC-PrPSPs PrPs PeP»C-PSC-C‡PSPëC... PĩCḡPsCḡPIC-PI CfP»C-Pr
PSP°P»P°PiPsPrPëC,Pë CfPëPjPiC,PsPjP°C,PëC‡PSPμ P»C-PeCfPIP°PSPSCḡ C,P°
PjPsPSC-C,PsCḡPëPSPi P¶PëC,C,C"PIPs PIP°P¶P»PëPIPëC... C,,CfPSPeC†C-PNₑ,
PIPeP»CHbC‡P°CHbC‡Pë P»C-PeCfPIP°PSPSCḡ P°CḡC,PμCḡC-P°P»CHbPSPsC—
PiC-PĩPsC,PμPSP·C-C— C,P° C†PëCḡPeCfP»CḡC,PsCḡPSPsC— PSPμPrPsCfC,P°C,PSPsCfC,C-, P°
C,P°PePsP¶ PĩC-PrC,CḡPëPjP°PSPSCḡ PrPëC...P°PSPSCḡ. PkPμ CfP»C-Pr
P·P°CfC,PsCfPsPICfPIP°C,Pë PμPiC-PSPμC,,CḡPëPS, PrPsPĩP°PjC-PS C,P° C-PSCēC-
CfPëPjPĩP°C,PsPjC-PjPμC,PëPePë P· PrC-C"CH, C...P°CḡP°PeC,PμCḡPSPsCH PrP»Cḡ P±PμC,P°-
P°PiPsPSC-CfC,C-PI, PsCfPeC-P»CHbPePë P±PμC,P°-CfC,PëPjCfP»CḡC†C-Cḡ PjPsP¶Pμ
PĩPsPiC-CḡCēPëC,Pë PĩCḡPsCḡPIPë PiC-PĩPsC,PsPSC-C—. P" P»Cḡ PIPëCḡPIP»PμPSPSCḡ
PjPsP¶P»PëPIPëC... P°CḡPëC,PjC-PNₑ PSPμPsP±C...C-PrPSPëPNₑ PjPsPSC-C,PsCḡPëPSPi
CfPμCḡC†PμPIPs-CfCfPrPëPSPSPsC— CfPëCfC,PμPjPë. P PμC,PμP»CHbPSPëPNₑ
PjPμPrPëC‡PSPëPNₑ PSP°PiP»CḡPr C,P° PjPsPSC-C,PsCḡPëPSPi PĩPsPIPëPSPμPS C,CḡPëPIP°C,Pë
PrPs PĩPsPIPSPsPiPs PsPrCfP¶P°PSPSCḡ PĩP°C†C-C"PS,C,P°.

PμPsP±C-C‡PSC- CḡPμP°PeC†C-C—.

PμPsCḡPsC,PePëPNₑ PsPĩPëCf PĩCḡPsC,,C-P»CH P±PμP·PĩPμPePë

P"PsCḡPsCfP»C-

PkP°PNₑC‡P°CfC,C-CēPëPjPë PĩPsP±C-C‡PSPëPjPë CḡPμP°PeC†C-CḡPjPë
(CfPĩPsCfC,PμCḡC-PiP°P»PëCfCḡ Cf ≥ 1 % PĩP°C†C-C"PS,C-C-PI),
PĩPsPIbḡ™ CḡP·P°PSPëPjPë C-P· P·P°CfC,PsCfCfPIP°PSPSCḡPj PsP»P°PSP·P°PĩC-PSCf PI
C...PsPrC- PeP»C-PSC-C‡PSPëC... PrPsCfP»C-PrP¶PμPSCḡ, P±CfP»Pë C,P°PeC-:
CfPsPSP»PëPIC-CfC,CHb, P·P±C-P»CHbCēPμPSPSCḡ PjP°CfPë C,C-P»P°,
PμPsP·PëPSPsC,,C-P»C-Cḡ, PĩC-PrPIPëC%PμPSPSCḡ CḡC-PIPSC-PI
PĩCḡPsP»P°PeC,PëPSCf, C...PsP»PμCfC,PμCḡPsP»Cf (C...PsP»PμCfC,PμCḡPëPSCf),
PiP»CHbPePsP·Pë C,P° C,CḡPëPiP»C-C†PμCḡPëPrC-PI Cf PeCḡPsPIC- (PrPëPI.
CḡPsP·PrC-P» B«PhCfPsP±P»PëPIPsCfC,C- P·P°CfC,PsCfCfPIP°PSPSCḡB»),
PiP»CHbPePsP·CfCḡC-Cḡ, PĩC-PrPIPëC%PμPSPSCḡ P°PĩPμC,PëC,Cf,
P·P°PĩP°PjPsCḡPsC‡PμPSPSCḡ, P°PeP°C,PëP·C-Cḡ, PĩP°CḡPeC-PSCfPsPSC-P·Pj,

P»PμPNεPePsPīPμPSC–CЦ, PSPμPNεC,CTḡPsPīPμPSC–CЦ (PrPēPI. CTḡPsP·PrC–P»
 B«PhCГPsP±P»PēPIPsCГC,C– P·P°CГC,PsCГCГPIP°PSPSCЦB»), PrPēCГPeC–PSPμP·C–CЦ,
 PsCTḡC,PsCГC,P°C,PēC±PSP° PiC–PīPsC,PμPSP·C–CЦ,
 P°PSC,PēC...PsP»C–PSPμCTḡPiC–C±PSC– PμC,,PμPeC,Pē, C,CTḡP°PSP·PēC,PsCTḡPSPμ
 P°CГPēPjPiC,PsPjP°C,PēC±PSPμ PiC–PrPIPēC%PμPSPSCЦ CTḡC–PIPSC–PI
 PīPμC±C–PSPePsPIPēC... C,CTḡP°PSCГP°PjC–PSP°P· (PrPēPI. CTḡPsP·PrC–P»
 B«PhCГPsP±P»PēPIPsCГC,C– P·P°CГC,PsCГCГPIP°PSPSCЦB»), PIPēCГPēPīP°PSPSCЦ,
 P°CГC,PμPSC–CЦ, CГC,PsPjP»CTḡPIP°PSC–CГC,CH, PiC–PīPμCTḡC,PμCTḡPjC–CЦ,
 P°CTḡC,CTḡP°P»PiC–CЦ, PiC–PrPIPēC%PμPSPSCЦ CTḡC–PIPSCЦ
 P°P»PeP°P»C–PSC,,PsCГC,,P°C,P°P·Pē, PiP°PjPjP°PiP»CГC,P°PjC–P»C,CTḡP°PSCГC,,PμCTḡP°P·Pē,
 CГPμC±PsPIPsC— PePēCГP»PsC,Pē, PeCTḡPμP°C,PēPSC,,PsCГC,,PsPeC–PSP°P·Pē C,P°
 PSP°P±CTḡCЦPePē.

PḡP°P±P»PēC±PSPēPNε PiPμCTḡPμP»C–Pe PiPsP±C–C±PSPēC... CTḡPμP°PeCГC–PNε

PJ C,P°P±P»PēCГC– 1 PiC–PrCГCГPjPsPIP°PSPs PsCГPSPsPIPSC– PīPsP±C–C±PSC–
 CTḡPμP°PeCГC–C— C,P° C—C...PSCЦ C±P°CГC,PsC,P°, PIPēP·PSP°C±PμPSC– CГ C...PsPrC–
 PeP»C–PSC–C±PSPēC... PrPsCГP»C–PrP¶PμPSCH C,P°/P°P±Ps PSP° PsCГPSPsPIC–
 PīPsCГC,PjP°CTḡPePμC,PēPSPiPsPIPsPiPs PrPsCГPIC–PrCГ.

P”CГP¶Pμ C±P°CГC,Ps (≥ 1/10), C±P°CГC,Ps (≥ 1/100 C,P° < 1/10), PSPμC±P°CГC,Ps (≥
 1/1000 C,P° < 1/100), CTḡC–PrPePs (≥ 1/10000 C,P°B < 1/1000), PrCГP¶Pμ CTḡC–PrPePs (<
 1/10000), C±P°CГC,PsC,P° PSPμPIC–PrPsPjP° (C±P°CГC,PsC,CГ PSPμ PjPsP¶PSP°
 PICГC,P°PSPsPIPēC,Pē PSP° PsCГPSPsPIC– PSP°CЦIPSPēC... PrP°PSPēC...).

PḡP°P±P»PēCГCЦ 1

P·CГP¶Pμ C±P°CГC,Ps	PSP°CГC,Ps	PePμC±P°CГC,Ps	P·C–PrPePs	PSP°CГC,PsC,P° PSμPIC–PrPsPjP°
P— P±PsPeCГ CГPēCГC,PμPjPē PeCḡPsPIPsC,PIPsCḡPμPSPSCЦ C,P° P·C–PjC,,P°C,PeC±PSPsC— CГPēCГC,PμPjPē				
	P·PsP·PePSPsC,C–P·C–CЦ, P·PμPNεPePsPIPsPSC–CЦ ¹ , PSμPμC,CTḡPsPIPsPSC–CЦ ¹⁰		PḡCTḡPsPjP±PsCГPēC,PsPIPsPSC–CЦ ¹¹	
P— P±PsPeCГ C–PjCГPSPSPsC— CГPēCГC,PμPjPē				
		P°C–PIPsCḡCГC,P·PePIC–CГC,CH ¹¹		
PμPsCḡCГCḡPμPSPSCЦ PsP±PjC–PSCГ CḡPμC±PsPIPsC,C,P° CḡPsP·P·P·PrPē C,CḡP°PIP°PμPSPSCЦ				
P— P±C–P·CHCḡPμPSPSCЦ PjP°CГPē C,C–P·P° ¹	PμC–PrPIPēC%PμPSPSCЦ CḡC–PIPSCЦ C...PsP·PμCГC,PμCTḡPSCГ ¹² , PjC–PrPIPēC%PμPSPSCЦ CḡC–PIPSCЦ PIP°CHPePsP·Pē ¹ , PjC–PrPIPēC%PμPSPSCЦ CḡC–PIPSCЦ C,CTḡPēPμC–CḡPμCTḡPēPrC–P ¹³ , PIP°CHPePsP·CḡCḡC–CЦ, PjC–PrPIPēC%PμPSPSCЦ P°PIPsC,PēC,CГ	P PsP·PIPēC,PsPe P°P±Ps PIPsPIC–CḡCḡPμPSPSCЦ PIPμCḡPμP±C–PjCГ PrC–P°P±PμC,CГ, CḡC–PrPePs PIPsPjPḡ”CЦP·P°PSPsPiPs P PePjC,PsCḡPēPrPsP·PsPj P°P±Ps PePsPjPsCH, PIPeP·CHCḡP°CHCḡPē PrPμCḡPēC P·PμC,P°P·CHPSC– PIPēPjP°PrPePē (PrPēPI CTḡPsP·PrC–P·B·PhCГPs±P·PēPIPsCГC,C– P·P°CГC,PsCГCГPIP°PSPSCЦB»)	P°C–PIPsC,PμCTḡPjC–CЦ ¹²	
P— P±PsPeCГ PSPμCḡPIPsPIPsC— CГPēCГC,PμPjPē				
PḡPSPSP·PePIC–CГC,CH	P— P°P°P°PjPsCḡPμPSPSCЦ, P°PeP°C,PēP·C–CЦ ¹ , PIP°CTḡPēC–PSCГPSC–P·Pj ¹ , PrPeCГPēC–PSPμP·C–CЦ ¹	P·PIC–P·PμPIC,PeCḡPSC– PSP°PIP°PrPe, C%Ps P±CГP·Pē Pj P°PSP°PjPSPμP·C– P°P±Ps P±CГP·Pē PSP°CḡPIPSC– C,P°PeC,PsCḡPē CḡPēP·PēPeCГ ¹¹ , PrPeCГC,PsPSC–CЦ (PIP°P·CHCḡPSPs P· PsPeCГP·CḡCḡPSPēPj CГPēPjPIC,PsPjPsPj) ¹¹ , PjC–P·PSCЦ PrPeCГPēC–PSPμP·C–CЦ ¹¹ , P°PjPSPμP·C–CЦ ¹ , PrPeP·P°CḡC,CḡC–CЦ, P·P°C—PeP°PSPSCЦ ¹¹ , CГPēPSPḡCḡPj PIC,PsPjP·PμPSPēC... PSC–Pj ¹¹	PēPμPNεCTḡPsP·PμPIC,PeCḡPSPēPμ P·P·PsCḡPēC–CГPSPēPμ CГPēPSPḡCḡPj (PrPēPI. CḡPsP·PrC–P·B·PhCГPs±P·PēPIPsCГC,C– P·P°CГC,PsCГCГPIP°PSPSCЦB»)	
P— P±PsPeCГ CГPēCГC,PμPjPē PrPēC...P°PSPSCЦ, PsCḡPIP°PSC–PI PICḡCГPrPSPsC— PeP·C–C,PēPē C,P° CГPμCḡPμPrPsCГC,C–PSPSCЦ				
		PμCḡPsPIPsC,PμCḡP·P·PSPSCTP° ¹¹		
P— P±PsPeCГ CГPμCḡCḡPμPIPsC— CГPēCГC,PμPjPē				
		P·CḡP·PrPePeP°CTḡPrC–CЦ, PICḡPsP·PsPSPIP°CГC–CЦ C–PSC,PμCḡPIP°P·CГ QT, (PrPēPI. CTḡPsP·PrC–P· B·PhCГPs±P·PēPIPsCГC,C– P·P°CГC,PsCГCГPIP°PSPSCЦB»)	P°PμPSC,CḡPēPeCГP·CḡCḡPSP° C,P°C...C–PeP°CḡPrC–CЦ,C–P±CḡPēP·CḡCḡC–CЦ, CḡP°PIC,PsPIP° CГPjPμCḡC,CH B (PrPēPI. CḡPsP·PrC–P· B·PhCГPs±P·PēPIPsCГC,C– P·P°CГC,PsCГCГPIP°PSPSCЦB»)	
P— P±PsPeCГ CГCГPrPēPSPSPsC— CГPēCГC,PμPjPē				
PhCḡC,PsCГC,P°C,PeCḡPSP° PIC–PIPsC,PμPSP·C–CЦ ¹⁰		PḡCTḡPsPjP±PsPjPjP±PsP·C–CЦ (PIPeP·CHCḡP°CHCḡPē PjPjP±PsP·C–Cḡ P·PμPIPsPSPμPIPsC— P°CḡC,PμCTḡC– C,P° PIP°PēP±PsPePēPμ PIPμPSPsP·PSPēPμ C,CḡPsPjP±PsP·) (PrPēPI. CḡPsP·PrC–P· B·PhCГPs±P·PēPIPsCГC,C– P·P°CГC,PsCГCГPIP°PSPSCЦB»)		
P— P±PsPeCГ CḡP·CḡPSPePsPIPs–PePēCḡPePsPIPsPIPs C,CḡP°PeC,Cḡ				
	P·PμPIPeC– PePsCḡPsC,PePsC,CḡPePIP°P·C– P°PSC,PeC,,PsP·C–PSPμCḡPIC–CḡPSC– PμC,,PμPeC,Pē, PIPeP·CHCḡP°CHCḡPē P·P°PIPsCḡPē C,P° CГCḡC...C–CГC,CH CГ CḡPsC,C–	P— PrCГC,C,CЦ P°PēPIPsC,P° ¹¹ , PIC–PIPsCḡCḡPμPeCḡPμCГC–CЦ CḡP°PēPSPē ¹¹	PμP°PSPeCḡPμP°C,PēC,Pē ¹¹	
P— P±PsPeCГ PIPμPIP°C,PsP±C–P·C–P°CḡPSPsC— CГPēCГC,PμPjPē				
	PḡCTḡPSP·PēC,PsCḡPSC– P°CḡPēPjPIC,PsPjP°C,PēCḡPSC– PjC–PrPμPjPjPē CḡC–PIPSCЦ PIPμCḡC–PSPePsPIPsC... C,CḡP°PSCГPjC–PSP°P· (PhP·PhPj C,P° PhCГPjPj), PsCГPs±P·PēPIPs PSP° PIPsCḡP°C,PeCḡ P·C–PeCḡPIP°PSPSCЦ (PrPēPI. CḡPsP·PrC–P· B·PhCГPs±P·PēPIPsCГC,C– P·P°CГC,PsCГCГPIP°PSPSCЦB»)		P°PμPIP°C,PēC,Pē (PIPeP·CHCḡP°CHCḡPē PIPμPIP°C,PsCḡPμP·CHP·CḡCḡPSPμ C...PsP·PμCГC,P°C,PeCḡPSPμ P°P±Ps P·PjC–CḡP°PSPμ CḡCḡPePsPjPμPSPSCЦ PIPμCḡC–PSPePē) ¹¹	
P— P±PsPeCГ CḡPeC–CḡPē C,P° C—C— PIPsC...C–PrPSPēC...				

5 PŸPİPsCİ́C,PµCḡC-PİP°P»PsCİ́Cİ CÍ PİP°C†C-C”PSC,C-PI P· PSPsCḡPjP°P»CHbPSPëPj PİPsC†P°C,PePsPIPëPj CḡC-PIPsPµPj PSP°C,C%oPµ (<1,69 PjPjPsP»CHb/P»), CİPePëPNē PİC-PrPIPëC%oCÍPIP°PICİ́Cİ PrPs PIPëCİ́PsPePsPiPs (≥ 2,26 PjPjPsP»CHb/P»). P”CÍP¶Pµ C†P°Cİ́C,Ps PİPsPIC-PrPsPjP»CİP»Pë PİCḡPs CḡC-P·PePµ PİC-PrPIPëC%oPµPSPSCİ CḡC-PIPsCİ C,CḡPëPİP»C-C†PµCḡPëPrC-PI PSP°C,C%oPµ P· PİPsC†P°C,PePsPIPSPİPs CḡC-PIPsCİ (≥ 1,69 - < 2,26 PjPjPsP»CHb/P») PrPs PIPëCİ́PsPePsPiPs CḡC-PIPsCİ (≥ 2,26 PjPjPsP»CHb/P»).

6 PµC-Pr C†P°Cİ́ PeP»C-PSC-C†PSPëC... PrPsCİ́P»C-PrP¶PµPSCHb C†P°Cİ́C,PsC,P° PIPëPSPëPePSPµPSPSCİ PİP°CḡPeC-PSCİ́PsPSC-P·PjCÍ C- PrPëCİ́C,PsPSC-C— CÍ PİP°C†C-C”PSC,C-PI, CİPeC- PsC,CḡPëPjCÍCḡC,CHb P»C-PeCÍPIP°PSPSCİ PsP»P°PSP·P°PİC-PSPsPj, P±CÍP»P° PIPëC%oP°, PSC-P¶ CÍ C...PsPrC- PrPsCİ́P»C-PrP¶PµPSCHb PİP»P°C†PµP±Ps, P°P»Pµ PeP»C-PSC-C†PSPs PSPµP·PSP°C†PSPs. P§P°Cİ́C,PsC,P° PIPëPSPëPePSPµPSPSCİ PİP°CḡPeC-PSCİ́PsPSC-P·PjCÍ, P°PeP°C,PëP·C-C— C- PrPëCİ́C,PsPSC-C— CÍ PİP°C†C-C”PSC,C-PI, CİPeC- PsC,CḡPëPjCÍCḡC,CHb P»C-PeCÍPIP°PSPSCİ PsP»P°PSP·P°PİC-PSPsPj, P±CÍP»P° PSPëP¶C†P°, PSC-P¶ PİCḡPë P·P°Cİ́C,PsCİ́CÍPIP°PSPSC- C,PëC,CḡPsPIP°PSPëC... PrPsP· PİP°P»PsPİPµCḡPëPrPsP»CÍ. P§PµCḡPµP· PIC-PrCİ́CÍC,PSC-Cİ́C,CHb C-PSC„PsCḡPjP°C†C-C— PİCḡPs PSP°CİPIPsC-Cİ́C,CHb PI P°PSP°PjPSPµP·C- PİPsCİ́C,CḡPëC... P°P±Ps PİC-P·PSC-C... PµPeCİ́C,CḡP°PİC-CḡP°PjC-PrP°P»CHbPSPëC... CḡCÍC...PsPIPëC... PİPsCḡCÍC€PµPSCHb PSPµ PjPsP¶PSP° PICİ́C,P°PSPsPIPëC,Pë, C%oPs PsP»P°PSP·P°PİC-PS PjPµPSC€Pµ Cİ́PİCḡPëC†PëPSCİC” PİC-P·PSCḡ PrPëCİ́PeC-PSPµP·C-Cḡ C,P°/P°P±Ps C-PSC€C- PİC-P·PSC- PµPeCİ́C,CḡP°PİC-CḡP°PjC-PrP°P»CHbPSC- Cİ́PëPSPrCḡPsPjPë.

7 Pj PIPëPİP°PrPeCÍ CḡC-P·PePsPiPs PİCḡPëPİPëPSPµPSPSCİ C,PµCḡP°PİC-C— PsP»P°PSP·P°PİC-PSPsPj PİPsPIC-PrPsPjP»CİP»Pë PİCḡPs PİPsCİ́C,CḡC- Cİ́PëPjPİC,PsPjPë: PİC-PrPIPëC%oPµPSPµ PİPsC,PsPIPëPrC-P»PµPSPSCİ, P±PµP·Cİ́PsPSPSCİ, C,CḡPµPjPsCḡ, P°P¶PëC,P°C†C-Cḡ, PSCÍPrPsC,CÍ C- P±P»CḡPIP°PSPSCİ.

8 Pj C...PsPrC- PeP»C-PSC-C†PSPëC... PrPsCİ́P»C-PrP¶PµPSCHb (PrPs 12 C,PëP¶PSC-PI) PIPëP·PSP°C†PµPSPs, C%oPs PePsPSC†PµPSC,CḡP°C†C-Cİ PİCḡPsP»P°PeC,PëPSCÍ CÍ PİP»P°P·PjC- PeCḡPsPIC- PİPµCḡPµPIPëC%oCÍPIP°P»P° PIPµCḡC...PSC-PNē P»C-PjC-C, PSPsCḡPjPë CÍ 30 % PİP°C†C-C”PSC,C-PI, CİPeC- P·P°Cİ́C,PsCİ́PsPICÍPIP°P»Pë PsP»P°PSP·P°PİC-PS. Pj P±C-P»CHbC€PsCİ́C,C- PİP°C†C-C”PSC,C-PI C,P°PePµ PİC-PrPIPëC%oPµPSPSCİ P±CÍP»Ps PİPsPjC-CḡPSPëPj C- P·P°P»PëC€P°P»PsCİ́Cİ CÍ PjPµP¶P°C... P·PSP°C†PµPSCHb, CÍ PrPIP° CḡP°P·Pë PSPëP¶C†PëC... PIC-Pr PIPµCḡC...PSCHbPsPiPs CḡC-PIPsCİ PSPsCḡPjPë.

9 PµPsP±C-C†PSC- CḡPµP°PeC†C-C— PIPëP·PSP°C†PµPSPs PI CḡPµP·CÍP»CHbC,P°C,C- PeP»C-PSC-C†PSPëC... PrPsCİ́P»C-PrP¶PµPSCHb PI C-PSC,PµPİCḡPsPIP°PSC-PNē P±P°P·C- PrP°PSPëC... PsP»P°PSP·P°PİC-PSCÍ.

10 PhC†C-PSPeP° PIPëPjC-CḡCİPSPëC... P·PSP°C†PµPSCHb PIPëP·PSP°C†PµPSP° PI CḡPµP·CÍP»CHbC,P°C,C- PeP»C-PSC-C†PSPëC... PrPsCİ́P»C-PrP¶PµPSCHb PI C-PSC,PµPİCḡPsPIP°PSC-PNē P±P°P·C- PrP°PSPëC... PsP»P°PSP·P°PİC-PSCÍ.

11 PµPsP±C-C†PSC- CḡPµP°PeC†C-C— PIPëP·PSP°C†PµPSPs P·C- Cİ́PİPsPSC,P°PSPSPëC... PİPsCİ́C,PjP°CḡPePµC,PëPSPİPsPIPëC... P·PIC-C,C-PI P· PİPµCḡC-PsPrPëC†PSC-Cİ́C,Cḡ, C%oPs PICİ́C,P°PSPsPIP»PµPSP° PSP° PsCİ́PSPsPIC- C-PSC,PµPİCḡPsPIP°PSPsC— P±P°P·Pë PrP°PSPëC... PsP»P°PSP·P°PİC-PSCÍ.

12 P_μPsP±C-C≠PSC- C₇H_μP^oPeC†C-C— PIPëP·PSP°C≠P_μPSPs P·C- C†P_iPsPSC,P°PSPSPëC... P_iPsC†C,PjP°C₇PeP_μC,PëPSPiPsPIPëC... P·PIC-C,C-PI P· P_iP_μC₇C-PsPrPëC≠PSC-C†C,C₇, C%_oPs PsC†C-PSP_μPSP° P· PIPëPePsC₇PëC†C,P°PSPSC_μPj PrPsPIC-C₇C≠PsPiPs C-PSC,P_μC₇PIP°P»C† PI PIP_μC₇C...PSC₇PsPjC† P»C-PjC-C,C- PSPSc₇PjPë (95 %) PsC†PSPsPIC- C-PSC,P_μPiC₇PsPIP°PSPsC— P±P°P·Pë PrP°PSPëC... PsP»P°PSP·P°PiC-PSC†.

P'PiP»PëPI PiC₇Pë PrPsPIPiPsC,C₇PëPIP°P»PsPjC† P·P°C†C,PsC†C†PIP°PSPSC- (PSP_μ PjP_μPSC€P_μ 48 C,PëP¶PSC-PI). P'C-PrC†PsC,PsPe P_iP°C†C-C"°PSC,C-PI, C† C_μPePëC... PIC-PrP·PSP°C≠P°P»PëC†C_μ P_iPsP±C-C≠PSC- C₇H_μP^oPeC†C-C— C† PIPëPiP»C_μPrC- PeP»C-PSC-C≠PSPs C†C†C,C,C"°PIP_sPiPs P_iC-PrPIPëC%_oP_μPSPSC_μ PjP°C†Pë C,C-P»P°, P·PjC-PSPë C₇C-PIPS_μ P_iP»C₇PePsP·Pë, P·P°PiP°P»C₇HPSPsPiPs C...PsP»P_μC†C,P_μC₇PëPSC†/P>P_μPkP©/P>P_μP'P© P°P±Ps C,C₇PëPiP»C-C†P_μC₇PëPrC-PI, P_iPsC†C,C-PM₂PSPs P·P±C-P»C₇C€C†PIP°PIC†C_μ. Pj PrPsC₇PsC†P»PëC... P_iP°C†C-C"°PSC,C-PI, C_μPeC- P·P°PeC-PSC≠PëP»Pë 9-12-PjC-C†C_μC≠PSPëPM₂ PeC†C₇C† C,P_μC₇P°PiC-C—, C,P_μPjP_i P_iC-PrPIPëC%_oP_μPSPSC_μ C₇C-PIPS_μ P_iP»C₇PePsP·Pë PI PeC₇PsPIC- PSP°C,C%_oP_μ C†P_iPsPIC-P»C₇HPSPëPIC†C_μ PiC₇PëP±P»PëP·PSPs P_iC-C†P»C_μ 6 PjC-C†C_μC†C-PI P»C-PeC†PIP°PSPSC_μ.

P_μPsP±C-C≠PSC- C₇H_μP^oPeC†C-C— PI PsPeC₇P_μPjPëC... PiPsPiC†P»C_μC†C-C_μC.... Pj C...PsPrC- PeP»C-PSC-C≠PSPëC... PrPsC†P»C-PrP¶P_μPSCH C† P_iP°C†C-C"°PSC,C-PI P»C-C,PSC₇PsPiPs PIC-PeC† C-P· PrP_μPjP_μPSC†C-C"°C₇ C,P_μC₇P°PiC-C_μ PsP»P°PSP·P°PiC-PSPsPj P±C†P»P° P_iPsPIB₇™ C_μP·P°PSP° P· P_iC-PrPIPëC%_oP_μPSPëPj C₇C-PIPS_μPj P»P_μC,P°P»C₇HPSPëC... PIPëPiP°PrPeC-PI C,P° C†P_μC₇P_μP±C₇PsPIP°C†PeC†P»C_μC₇PSPëPjPë P_iPsP±C-C≠PSPëPjPë C₇H_μP^oPeC†C-C_μPjPë P_iPsC₇C-PIPS_μPSPs P· C,P°PePëPj C† PiC₇C†P_iC- P_iP»P°C†P_μP±Ps. P"°C†P¶P_μ P_iPsC€PëC₇P_μPSPëPjPë PSP_μP±P°P¶P°PSPëPjPë P_μC,,P_μPeC,P°PjPë, P_iPsPIB₇™ C_μP·P°PSPëPjPë C-P· P·P°C†C,PsC†C†PIP°PSPSC_μPj PsP»P°PSP·P°PiC-PSC†, C† PrP°PSPsC— PiC₇C†P_iPë P_iP°C†C-C"°PSC,C-PI P±C†P»Pë P_iPsC₇C†C€P_μPSPSC_μ C...PsPrPë C,P° P_iP°PrC-PSPSC_μ. P§P°C†C,Ps C†P_iPsC†C,P_μC₇C-PiP°P»P°C†C_μ P_iPSP_μPIPjPsPSC-C_μ, P_iC-PrPIPëC%_oP_μPSPSC_μ C,P_μPjP_iP_μC₇P°C,C†C₇Pë C,C-P»P°, P»P_μC,P°C₇PiC-C_μ, P_μC₇PëC,P_μPjP°, P·PsC₇PsPIC- P_iP°P»C₇C†PëPSP°C†C-C— C,P° PSP_μC,C₇PëPjP°PSPSC_μ C†P_μC†C-.

Pj C...PsPrC- PeP»C-PSC-C≠PSPëC... PrPsC†P»C-PrP¶P_μPSCH C†P_μC₇P_μPr P_iP°C†C-C"°PSC,C-PI P· PjP_μPrPëPeP°PjP_μPSC,PsP·PSPs C-PSP†C†PePsPIP°PSPëPj (P°PiPsPSC-C†C, PrPsP_iP°PjC-PSC†) P_iC†PëC...PsP·PsPj, P_iPsPIB₇™ C_μP·P°PSPëPj C-P· C...PIPsC₇PsP±PsC₇ P_μP°C₇PeC-PSC†PsPSP°, P_iPsPiC-C₇C€P_μPSPSC_μ P_iP°C₇PeC-PSC†PsPSC-PIC†C₇HPePsC— C†PëPjP_iC,PsPjP°C,PëPePë C,P° P_iP°P»C₇C†PëPSP°C†C-C— PIC-PrP·PSP°C≠P°P»PsC†C_μ PrC†P¶P_μ C≠P°C†C,Ps, C≠P°C†C,C-C€P_μ, PSC-P¶ C† PiC₇C†P_iC- P_iP»P°C†P_μP±Ps.

Pj C...PsPrC- PsPrPSPsPiPs PeP»C-PSC-C≠PSPsPiPs PrPsC†P»C-PrP¶P_μPSPSC_μ C† P_iP°C†C-C"°PSC,C-PI C-P· P±C-P_iPsP»C_μC₇PSPsC₇ PjP°PSC-C"°C₇ PI C₇H_μP·C†P»C₇C,P°C,C- P·P°C†C,PsC†C†PIP°PSPSC_μ PsP»P°PSP·P°PiC-PSC† C† PePsPjP±C-PSP°C†C-C— P· PIP°P»C₇PiC₇PsP°C,PsPj C†P_iPsC†C,P_μC₇C-PiP°P»P°C†C_μ PSP_μPM₂C,C₇PsPiP_μPSC-C_μ 4,1 %; PjPsP¶P»PëPIPsC₇ PiC₇PëC≠PëPSPsC₇ PjPsP¶P_μ P±C†C,Pë P_iC-PrPIPëC%_oP_μPSPSC_μ C₇C-PIPS_μ PIP°P»C₇PiC₇PsP°C,C† C† P_iP»P°P·PjC- PeC₇PsPIC-.

Pj C₇H_μP·C†P»C₇C,P°C,C- P·P°C†C,PsC†C†PIP°PSPSC_μ PsP»P°PSP·P°PiC-PSC† P· P»C-C,C-C"°Pj P°P±Ps PIP°P»C₇PiC₇PsP°C,PsPj C†P_iPsC†C,P_μC₇C-PiP°P»PëC†C_μ

($\geq 10\%$) C, C₇H₁₄P₂PsC₇H₁₄, C₇H₁₄C...C-C₇H₁₄, C₇H₁₄ C₇ H₁₄PsC, C-, P·P±C-P»CH₃CEP₂PS₂SC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P°, PiC-PrPIPëC%₀₀P₂PS₂SC₇H₁₄ P°PiP₂C, PëC, C₇. P₇P°PePsP₇ PiPsPIC-PrPsPjP»C₇H₁₄P»Pë PiC₇H₁₄Ps PiPsC₇H₁₄C₇CEP₂PS₂SC₇H₁₄ PjPsPIP»P₂PS₂SC₇H₁₄. P₂C-Pr C₇P°C₇ C, P₂C₇H₁₄P°PiC-C— PsP»P°PSP·P°PiC-PS₂Psj C₇ PePsPjP±C-PSP°C₇C-C— P·P»C-C, C-C”Pj P°P±Ps PrPëPIP°P»PiC₇H₁₄PsP₂PeC₇PsPj C₇ PiPsC₇C, P₂C₇H₁₄-PiP°P»PsC₇C₇B P·P±C-P»CH₃CEP₂PS₂SC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P° $\geq 7\%$ B P₇P₇PyB (C-PSPrP₂PeC₇C₇ PjP°C₇H₁₄Pë C, C-P»P°) C₇ 17,4 % PiP°C₇C-C”PSC, C-PI PiC-Pr C₇P°C₇ C-PSC, P₂PS₂C₇PëPIPSPsC— C, P₂C₇H₁₄P°PiC-C— (PrPs 6 C, PëP₇PS₂-PI). P”PsPIPiPsC, C₇H₁₄PëPIP°P»P₂ P»C-PeC₇PIP°PSPSC₇H₁₄ PsP»P°PSP·P°PiC-PS₂Psj (PrPs 12 C, PëP₇PS₂-PI) PrP»C₇ PiPsPiP₂C₇H₁₄PrP₇P₂PS₂SC₇H₁₄ C₇H₁₄P₂C₇PëPrPëPIC-PI C₇ PiP°C₇C-C”PSC, C-PI C-P· P±C-PiPsP»C₇C₇PS₂PëPjPë C₇PsP·P»P°PrP°PjPë P±C₇P»Ps PiPsPiB₇™ C₇H₁₄P·P°PSPs P· PiC-PrPIPëC%₀₀P₂PS₂SC₇H₁₄Pj PjP°C₇H₁₄Pë C, C-P»P° $\geq 7\%$ P₇P₇Py C₇ 39,9 % PiP°C₇C-C”PSC, C-PI.

P”C-C, Pë.

P₇H»P°PSP·P°PiC-PS P₂SP₂ PiPsPeP°P·P°PSPëP₂ PrP»C₇ P»C-PeC₇PIP°PSPSC₇H₁₄ PrC-C, P₂PN₂ C, P° PiC-PrP»C-C, PeC-PI (PIC-PePsPj PrPs 18 C₇PsPeC-PI). P₇H»P»C-PSC-C₇PS₂- PrPsC₇P»C-PrP₇P₂PS₂SC₇H₁₄, C₇PeC- PiPsC₇H₁₄-PIPSC₇H₁₄PIP°P»Pë P·P°C₇C, PsC₇C₇PIP°PSPSC₇H₁₄ PsP»P°PSP·P°PiC-PS₂C₇ C₇ PiC-PrP»C-C, PeC-PI C, P° PrPsC₇PsC₇P»PëC..., P₂SP₂ PiC₇PsPiPsPrPëP»PëC₇CH₃.

P₇KëP₇C₇P₂ PIPeP°P·P°PSC- PiPsP±C-C₇PS₂- C₇H₁₄P₂P°PeC₇C-C—, C%₀₀Ps PIPëPSPëPeP°CH₃, CH₃ C₇P°C₇C, C-C₇Pe₂ C₇ PiC-PrP»C-C, PeC-PI (PIC-PePsPj PIC-Pr 13-17 C₇PsPeC-PI), PSC-P₇ C₇ PrPsC₇PsC₇P»PëC..., P°P±Ps PiPsP±C-C₇PS₂- C₇H₁₄P₂P°PeC₇C-C—, C%₀₀Ps P±C₇P»Pë PIPëC₇PIP»P₂PS₂- C, C-P»CH₃PePë PiC-Pr C₇P°C₇ PePsC₇PsC, PePsC, C₇H₁₄PëPIP°P»PëC... PeP»C-PSC-C₇PS₂PëC... PrPsC₇P»C-PrP₇P₂PS₂CH₃ C₇ PiC-PrP»C-C, PeC-PI. P₇H»P»C-PSC-C₇PS₂ P·PSP°C₇C₇%₀₀P₂ P·P±C-P»CH₃CEP₂PS₂SC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P° ($\geq 7\%$) C₇P°C₇C, C-C₇Pe₂ C₇ PiPsC₇C, P₂C₇H₁₄-PiP°P»PsC₇CH₃ C₇ PiC-PrP»C-C, PeC-PI PiPsC₇H₁₄-PIPSC₇PS₂ P· PrPsC₇PsC₇P»PëPjPë. P₂C-Pr C₇P°C₇ PrPsPIPiPsC, C₇H₁₄PëPIP°P»PsPiPs P»C-PeC₇PIP°PSPSC₇H₁₄ (P₂SP₂ PjP₂PS₂CEP₂ 24 C, PëP₇PS₂-PI) PeP»C-PSC-C₇PS₂ P·PSP°C₇C₇%₀₀P₂ P·P±C-P»CH₃CEP₂PS₂SC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P° P±C₇P»Ps PIPëC%₀₀PëPj, PSC-P₇ PiC-Pr C₇P°C₇ PePsC₇PsC, PePsC, C₇H₁₄PëPIP°P»PsPiPs P»C-PeC₇PIP°PSPSC₇H₁₄.

P₇S°C₇C, PsC, C₇ PiPsP±C-C₇PS₂PëC... C₇H₁₄P₂P°PeC₇C-PM₂, P·P°P·PSP°C₇P₂PS₂PëC... PSPëP₇C₇P₂, PIPëP·PSP°C₇P°CH₃, CH₃ C, P°PePëPj C₇PëPSPsPj: PrC₇P₇P₂ C₇P°C₇C, Ps ($\geq 1/10$), C₇P°C₇C, Ps ($\geq 1/100 - < 1/10$).

P₂PsC₇C₇CEP₂PS₂SC₇H₁₄ PsP±PjC-PSC₇ C₇H₁₄P₂C₇PsPIPëPS C, P° C₇PsP·P»P°PrPë C...P°C₇C₇C₇PIP°PSPSC₇H₁₄.

P”C₇P₇P₂ C₇P°C₇C, Ps: P·P±C-P»CH₃CEP₂PS₂SC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P°¹³, PiC-PrPIPëC%₀₀P₂PS₂SC₇H₁₄ C₇H₁₄-PIPSC₇H₁₄ C, C₇H₁₄PëPiP»C-C₇P₂C₇H₁₄PëPrC-PI¹⁴, PiC-PrPIPëC%₀₀P₂PS₂SC₇H₁₄ P°PiP₂C, PëC, C₇.

P₇S°C₇C, Ps: PiC-PrPIPëC%₀₀P₂PS₂SC₇H₁₄ C₇H₁₄-PIPSC₇H₁₄ C...PsP»P₂C₇C, P₂C₇H₁₄PëPSC₇¹⁵.

P— P±PsPeC₇ P₂SP₂C₇PIPSPsC— C₇PëC₇C, P₂PjPë.

P”C₇P₇P₂ C₇P°C₇C, Ps: C₇P₂PrP°C₇C-C₇ (C₇ C, PsPjC₇ C₇PëC₇P»C- PiC-PiP₂C₇C₇PsPjPSC-C₇, PjP»C₇PIC-C₇C, CH₃, C₇PsPSP»PëPIC-C₇C, CH₃).

P— P±PsPeCf C€P»CfPSPePsPIPs-PeP€C€PePsPIPsPiPs C,CfP°PeC,Cf.

P\$P°CfC,Ps: CfCfC...C-CfC,CH Cf CfPsC,C-.

P— P±PsPeCf PiPµPiP°C,PsP±C-P»C-P°CfPSPsC— CfP€CfC,PµPjP€B B B B B B

P" CžP¶Pµ CžP°CfC,Ps: PiC-PrPIP€C%PµPSPSCf CfC-PIPSCf PiPµC±C-PSPePsPIP€C...
C,CfP°PSCfP°PjC-PSP°P· (PħP»PħPŸ C,P° PħCfPħPŸ; (PrP€PI. CfPsP·PrC-P»
B«PhCfPsP±P»P€PIPsCfC,C- P·P°CfC,PsCfCfPIP°PSPSCfB»)).

P"PsCfP»C-PrP¶PµPSPSCf.

P" CžP¶Pµ CžP°CfC,Ps: P·PSP€P¶PµPSPSCf CfC-PIPSCf P·P°PiP°P»CHPSPsPiPs
P±C-P»C-CfCfP±C-PSCf, PiC-PrPIP€C%PµPSPSCf CfC-PIPSCf
PiP°PjPjP°PiP»CfC,P°PjC-P»C,CfP°PSCfC„PµCfP°P·P€, PiC-PrPIP€C%PµPSPSCf CfC-PIPSCf
PiCfPjPsP»P°PeC,P€PSCf Cf PiP»P°P·PjC- PeCfPjPsPIC⁻¹⁶.

¹³ PµC-CfP»Cf PePsCfPsC,PePsC±P°CfPSPsPiPs P»C-PeCfPIP°PSPSCf (CfPµCfPµPrPSCf
C,CfP€PIP°P»C-CfC,CH CfC,P°PSPsPIP€P»P° 22 PrPSC-) P·P±C-P»CHC€PµPSPSCf PjP°CfP€ C,C-P»P°
PSP°B ≥ 7 % CfPiPsCfC,PµCfC-PiP°P»PsCfCf PrCfP¶Pµ CžP°CfC,Ps (40,6 % PIP€PiP°PrPeC-PI), ≥ 15 %
CfPiPsCfC,PµCfC-PiP°P»PsCfCf CžP°CfC,Ps (7,1 % PIP€PiP°PrPeC-PI) C,P°B ≥ 25 % (2,5 %
PIP€PiP°PrPeC-PI). PµC-Pr CžP°Cf PrPsPIPiPsC,CfP€PIP°P»PsPiPs P»C-PeCfPIP°PSPSCf (PSPµ
PjPµPSC€Pµ 24 C,P€P¶PSC-PI) Cf 89,4 % PiP°C†C-C"PS,C-PI CfPiPsCfC,PµCfC-PiP°P»PsCfCf
P·P±C-P»CHC€PµPSPSCf PjP°CfP€ C,C-P»P° PSP° ≥ 7 %, Cf 55,3 % Bf" PSP° ≥ 15 % C,P° Cf 29, 1 % Bf"
PSP° ≥ 25 %.

¹⁴ PŸPiPsCfC,PµCfC-PiP°P»PsCfCf Cf PiP°C†C-C"PS,C-PI P·PSPsCfPjP°P»CHPSP€Pj
PiPsC±P°C,PePsPIP€Pj CfC-PIPSPµPj PSP°C,C%Pµ (< 1,016 PjPjPsP»CH/P»), CfPeP€Pµ
PiC-PrPIP€C%CfPIP°PICfCf PrPs PIP€CfPsPePsPiPs (≥ 1,467 PjPjPsP»CH/P»), C,P° CfC-P·PePµ
PiC-PrPIP€C%PµPSPSCf CfC-PIPSCf C,CfP€PiP»C-C†PµCfP€PrC-PI PSP°C,C%Pµ P·
PiPsC±P°C,PePsPIPsPiPs CfC-PIPSCf (≥ 1,016 - < 1,467 PjPjPsP»CH/P») PrPs PIP€CfPsPePsPiPs
CfC-PIPSCf (≥ 1,467 PjPjPsP»CH/P»).

¹⁵ PŸPiPsCfC,PµCfC-PiP°P»PsCfCfB Cf PiP°C†C-C"PS,C-PIB P·PSPsCfPjP°P»CHPSP€PjB
PiPsC±P°C,PePsPIP€PjB CfC-PIPSPµPj C...PsP»PµCfC,PµCfPsP»CfB PSP°C,C%Pµ P·B
PiPsC±P°C,PePsPIPsPiPsB CfC-PIPSCf

(< 4,39 PjPjPsP»CH/P») PrPs PIP€CfPsPePsPiPs CfC-PIPSCf (≥ 5,17 PjPjPsP»CH/P»). P"CfP¶Pµ
CžP°CfC,Ps PiPsPIC-PrPsPjP»CfP»PsCfCf PiCfPs CfC-P·PePµ PiC-PrPIP€C%PµPSPSCf
CfC-PIPSCf P·P°PiP°P»CHPSPsPiPs C...PsP»PµCfC,PµCfPsP»Cf PSP°C,C%Pµ P·
PiPsC±P°C,PePsPIPsPiPs CfC-PIPSCf (≥ 4,39 - < 5,17 PjPjPsP»CH/P») PrPs PIP€CfPsPePsPiPs
CfC-PIPSCf (≥ 5,17 PjPjPsP»CH/P»).

¹⁶ PJ 47,4 % PiC-PrP»C-C,PeC-PI CfPiPsCfC,PµCfC-PiP°P»PsCfCf PiC-PrPIP€C%PµPSPSCf
CfC-PIPSCf PiCfPsP»P°PeC,P€PSCf Cf PiP»P°P·PjC- PeCfPjPsPIC-.

PµPsPIC-PrPsPjP»PµPSPSCf PiCfPs PiPsP±C-C†PSC- CfPµP°PeC†C-C— PiC-CfP»Cf
CfPµC"CfC,CfP°C†C-C— P»C-PeP°CfCfCHPePsPiPs P·P°CfPsP±Cf PjP°C" PIP°P¶P»P€PIPµ
P·PSP°C†PµPSPSCf. P|Pµ PrP°C" P·PjPsPiCf PiCfPsPIPsPrP€C,P€ PjPsPSC-C,PsCfP€PSPi
CfPiC-PIPIC-PrPSPsC€PµPSPSCf PePsCfP€CfC,CH/CfP€P·P€Pe PiCfP€
P·P°CfC,PsCfCfPIP°PSPSC- C†CHPsPiPs P»C-PeP°CfCfCHPePsPiPs P·P°CfPsP±Cf.
PħPµPrP€C†PSP€Pj C,P° C„P°CfPjP°C†PµPIC,P€C†PSP€Pj PiCfP°C†C-PIPSP€PeP°Pj, P°
C,P°PePsP¶ PiP°C†C-C"PS,C,P°Pj P°P±Ps C—C... P·P°PePsPSPSP€Pj PiCfPµPrCfC,P°PIPSP€PeP°Pj

СГР»С-Рr PīPsPIC-PrPsPjP»CЦC, Pē PīCḡPs ĆCГC- PIPēPīP°PrPePē PīC-PrPsP·CḡCḡPIP°PSPēC...
PīPsP±C-C‡PSPēC... CḡPμP°PeC†C-PNē C,P° PIC-PrCГCГC,PSPsCГC,C-
PμC,,PμPeC,PēPIPSPsCГC,C- P»C-PeP°CḡCГCḡPePsPiPs P·P°CГPsP±Ć C‡PμCḡPμP·
PḡPIC,PsPjP°C,PēP·PsPIP°PSĆ C-PSC,,PsCḡPjP°C†C-PNēPSĆ CГPēCГC,PμPjĆ P·
C,,P°CḡPjP°PePsPSP°PiP»CЦPrĆ P·P° PīPsCГPēP»P°PSPSCЦPj: <https://aisf.dec.gov.ua>.

PŷPμCḡPjC-PS PīCḡPēPrP°C,PSPsCГC,C-. 2 CḡPsPePē.

PJPjPsPIPē P·P±PμCḡC-PiP°PSPSCЦ.

P—P±PμCḡC-PiP°C,Pē PīCḡPē C,PμPjPīPμCḡP°C,ĆCḡC- PSPμ PIPēC%oPμ 25 B°Pŷ PI
PsCḡPēPiC-PSP°P»CḡPSC-PNē ĆPīP°PePsPIC†C-.

P—P±PμCḡC-PiP°C,Pē Ć PSPμPrPsCГC,ĆPīPSPsPjĆ PrP»CЦ PrC-C,PμPNē PjC-CГC†C-.

PJPīP°PePsPIPeP°.

PμPs 14 C,P°P±P»PμC,PsPe Ć P±P»C-CГC,PμCḡC-, PīPs 2 P±P»C-CГC,PμCḡPē Ć
PeP°CḡC,PsPSPSC-PNē ĆPīP°PePsPIC†C-.

PљP°C,PμPiPsCḡC-CЦ PIC-PrPīĆCГPeĆ.B P—P° CḡPμC†PμPīC,PsPj.

P’PēCḡPsP±PSPēPe.

PќPsP±PμP» P†P»P°C‡ PŷP°PSP°C— PIPμ PŷC-PrP¶P°CḡPμC, Pḡ.Pē.

**PњC-CГC†PμP·PSP°C...PsPrP¶PμPSPSCЦ PIPēCḡPsP±PSPēPeP° C,P° P°PrCḡPμCГP°
PjC-CГC†CЦ PīCḡPsPIP°PrP¶PμPSPSCЦ PNēPsPiPs PrC-CЦP»CḡPSPsCГC,C-.**

PљPIP°CḡC,P°P» PŷP°PSPeP°PeP»P°Cḡ, PīCḡ. P·CГPeC- PḡPeC‡P°PePsPrP¶P°, B,, -299, 81100 Pj.
P”CḡP·PrP¶Pμ, PŷĆCḡPμC‡C‡PēPSP°.