

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

C-P· C€P€CґPsPeP€Pj CґPґPµPeC, CґPsPj C,, P°CґPjP°PePsP»PsPiC-CґPSPsC— PrC-C—, C%Ps
P·CґPjPsPIP»PµPSPs PIPґP»P€PIPsPj PSP° CґC-P·PSC- CґPµCґPµPґC, PsCґP€P. P'P€CґPIP»PµPSPs
P·PIBґ™ CґP·CґPIP°PSPSCґ P· CґPµCґPsC, PsPSC-PSPsPIP€PjP€ CґPµCґPµPґC, PsCґP°PjP€ 5
PќPґ_{2Ph/2Pґ}, 5 PќPґ₃, 5 PќPґ₆, PrPsPґP°PjC-PSPsPIP€PjP€ CґPµCґPµPґC, PsCґP°PjP€ D₁, D₂, D₃, D₄,
D₅, PjCґCґP€P°CґP€PSPsPIP€PjP€ CґPµCґPµPґC, PsCґP°PjP€ Pґ₁-Pґ₅,
P°PrCґPµPSPµCґPiC-CґPSP€Pj CґPµCґPµPґC, PsCґPsPj a₁ C- PiC-CґC, P°PjC-PSPsPIP€Pj Pќ₁-
CґPµCґPµPґC, PsCґPsPj. Pj C...PsPrC- PrPsCґP»C-PrPґPµPSCґ PiPsPIPµPrC-PSPeP€
C, PIP°CґP€PS, CґPeP€Pj PIPsPrP€P»P€ PsP»P°PSP·P°PґC-PS, PIP€CґPIP»PµPSPs
P°PSC, P°PiPsPSC-P·Pj PsP»P°PSP·P°PґC-PSCґ CґPe PrPs CґPµCґPsC, PsPSC-PSPsPIP€C...
CґPµCґPµPґC, PsCґC-PI 5PќPґ, C, P°Pe C- PrPs PrPsPґP°PjC-PSPsPIP€C... C-
C...PsP»C-PSPµCґPiC-CґPSP€C.... PhP»P°PSP·P°PґC-PS PjP°C" PIP€C%P€Pґ CґC-PIPµPSCґ
P·PIBґ™ CґP·CґPIP°PSPSCґ P· CґPµCґPµPґC, PsCґP°PjP€ CґPµCґPsC, PsPSC-PSCґ 5PќPґ₂,
PSC-Pґ P· CґPµCґPµPґC, PsCґP°PjP€ PrPsPґP°PjC-PSCґ D₂, C, P° Cґ PjPsPrPµP»CґC... CґPe *in*
vitro, C, P°Pe C- *in vivo*. P·P»PµPeC, CґPsC,, C-P-C-PsP»PsPiC-CґPSC- PrPsCґP»C-PrPґPµPSPSCґ
PiPsPeP°P·P°P»P€, C%Ps PsP»P°PSP·P°PґC-PS CґPµP»PµPeC, P€PIPsPs P·PjPµPSC€CґC"
P·P±CґPrP»P€PIC-CґC, Cґ PjPµP·PsP»C-PjP±C-CґPSP€C... (Pґ10)
PrPsPґP°PjC-PSPµCґPiC-CґPSP€C... PSPµPґCґPsPSC-PI, PIP€CґPIP»CґCґCґP€ PiCґP€
CґCґPsPjCґ PSPµP·PSP°CґPSP€Pґ PIPґP»P€PI PSP° CґC, CґC-P°CґPSC- (Pґ9) C€P»CґC...P€,
PiPsPIBґ™ CґP·P°PSC- P· PjPsC, PsCґPSPsCґ C,, CґPSPeCґC-C" Cґ. PhP»P°PSP·P°PґC-PS
PiP°P»CґPjCґC" CґPjPsPIPSP€Pґ CґPµC,, P»PµPeCґ CґPSP€PePSPµPSPSCґ, C%Ps
CґPIC-PrCґP€C, Cґ PiCґPs PґPsPiPs P°PSC, P€PiCґP€C...PsC, P€CґPSCґ P°PeC, P€PIPsC-CґC, Cґ
PiCґP€ PiCґP€PґPsPjC- PI PrPsP·P°C..., PjPµPSC€P€C..., PSC-Pґ PrPsP·P€, C%Ps
CґPiCґP€CґP€PSCґCґC, Cґ PeP°C, P°P»PµPґCґC-Cґ, CґPeP° C" PsP·PSP°PePsCґ
PiPsP±C-CґPSP€C... PjPsC, PsCґPSP€C... PµC,, PµPeC, C-PI. PќP° PIC-PrPjC-PSCґ PIC-Pr
PrPµCґPeP€C... C-PSC€P€C... P°PSC, P€PiCґP€C...PsC, P€CґPSP€C... P»C-PeP°CґCґCґPeP€C...
P·P°CґPsP±C-PI, PsP»P°PSP·P°PґC-PS PiPsCґP€P»CґC" CґPµP°PeCґC-C— PSP°
PiPsPrCґP°P·PSP€PeP€ PiCґP€ PiCґPsPIPµPrPµPSPSC- P°PSPeCґC-PsP»C-C, P€CґPSPsPiPs
C, PµCґC, Cґ.

PµCґP€ PsPrPSPsCґP°P·PsIPsPjCґ PiCґP€PґPsPjC- 10 PjPi PsP»P°PSP·P°PґC-PSCґ Cґ
C...PsPrC- PiPsP·P€C, CґPsPSPSPs-PµPjC-CґC-PґPSPsC— C, PsPjPsPiCґP°C,, C-C— (PµP·Pґ) P·
CґCґP°CґC, Cґ PrPsP±CґPsPIPsP»CґCґC-PI P·Bґ™ CґCґPsPIP°PSPs, C%Ps
PsP»P°PSP·P°PґC-PS PjP°PI P±C-P»CґC€P€Pґ CґC-PIPµPSCґ P·PIBґ™ CґP·CґPIP°PSPSCґ P·
CґPµCґPµPґC, PsCґP°PjP€ 5 PќPґ_{2Ph}, PSC-Pґ C-P· PrPsPґP°PjC-PSPsPIP€PjP€
CґPµCґPµPґC, PsCґP°PjP€ D₂. PґCґC-Pj C, PsPiPs, Cґ CґPµP·CґP»CґC, P°C, C- P°PSP°P»C-P·Cґ
P·PsP±CґP°PґPµPSCґ, PsC, CґP€PjP°PSP€C... PiC-Pr CґP°Cґ PrPsCґP»C-PrPґPµPSCґ
PiP°CґC-C" PSC, C-PI, C...PIPsCґP€C... PSP° C€P€P·PsC,, CґPµPSC-Cґ, PjPµC, PsPrPsPj
PsPrPSPsC,, PsC, PsPSPSPsC— PµPjC-CґC-PґPSPsC— PePsPjPiBґ™ CґC, PµCґPSPsC—
C, PsPjPsPiCґP°C,, C-C— (PhPµP·PґPґ), P·Bґ™ CґCґCґPIP°P»PsCґCґ, C%Ps
PsP»P°PSP·P°PґC-PS-CґCґC, P»P€PIC- PiP°CґC-C" PSC, P€ PIP€CґPIP»CґP»P€ PjPµPSC€P€Pґ
CґC-PIPµPSCґ P·PIBґ™ CґP·CґPIP°PSPSCґ P·C- CґC, CґC-P°CґPSP€PjP€ D₂-
CґPµCґPµPґC, PsCґP°PjP€, PSC-Pґ C-PSC€C- P°PSC, P€PiCґP€C...PsC, P€Pe- C, P°
CґPµCґPiC-CґP€PrPsPSCґCґC, P»P€PIC- PiP°CґC-C" PSC, P€, C%Ps PiPsCґC-PIPsCґPSPSPs P·
PeP»PsP·P°PґC-PSCґCґC, P»P€PIP€PjP€ PiP°CґC-C" PSC, P°PjP€.

PґP»C-PSC-CґPSP° PµC,, PµPeC, P€PIPsC-CґC, Cґ.

PµC-Pr CґP°Cґ PrPIPsC... C-P· PrPIPsC... PiP»P°CґPµP±Ps-PePsPSC, CґPsP»CґPsPIP°PSP€C... C-
PrPIPsC... C-P· C, CґCґPsC... PiPsCґC-PIPsCґP»CґPSPs-PePsPSC, CґPsP»CґPsPIP°PSP€C...
PrPsCґP»C-PrPґPµPSCґ P· CґCґP°CґC, Cґ PiPsPSP°Pr 2900 C...PIPsCґP€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»CḡPSP€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,Cḡ C,P° P·
P°CḡPsCḡC-PN€PsPIP°PSP€PjP€ P· CḡP€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 PsCḡC-PSPeP€ PrPμPiCḡPμCḡC-C—](#)),
[PīCḡPsCḡPīPμPeC,P€PIPSPμ PIC,PsCḡP€PSPSPμ PrPsCḡP»C-PrPḡPμPSPSCḡ PIC-Pr](#)
[PīPsC±P°C,PeCḡ PrPs PeC-PSCḡCḡ PsCḡC-PSPeP€ P·PjC-PS PSP°CḡC,CḡPsCḡ](#)
[PICḡC,P°PSPsPiP€P»Ps CḡC,P°C,P€CḡC,P€C±PSPs P·PSP°CḡCḡC%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°CḡC-C''PSC,C-PI P· PjP°PSC-P°PeP°P»CḡPSP€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,Cḡ Cḡ
P·PSP€PḡPμPSPSC- PjP°PSC-P°PeP°P»CḡPSP€C... CḡP€PjPiC,PsPjC-PI PīCḡPsC,CḡPiPsPj
3 C,P€PḡPSC-PI PīPsCḡC-PIPSCḡPSPs P· PīP»P°CḡPμP±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,Cḡ CḡPμP·CḡP»CḡC,P°C,C-PI P· PīP°P»PsPīPμCḡP€PrPsP»PsPj Cḡ
PīPμCḡPμCḡP°C...CḡPIP°PSPSC- PSP° CḡP°CḡC,PeCḡ PīP°CḡC-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 CḡP°Cḡ CḡCḡPīCḡC,PSCHPsPiPs
P»C-PeCḡPIP°PSPSCḡ P»C-C,C-C''Pj P°P±Ps PIP°P»CḡPīCḡPsP°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°CḡPSPμ 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»CḡPīCḡPsP°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€
CḡPμCḡP€PrP€PIC-PI PjP°PSC-P°PeP°P»CḡPSP€C... PμPiC-P·PsPrC-PI Cḡ PīP°CḡC-C''PSC,C-PI,
CḡPeC- PrPsCḡCḡPiP»P€ CḡPμPjC-CḡC-C— P·P° PrPsPīPsPjPsPiPsCḡ PsP»P°PSP·P°PiC-PSCḡ C-
PI PīPsPrP°P»CḡC€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°CḡPμP±Ps, PsP»P°PSP·P°PiC-PS
PīCḡPsPrPμPjPsPSCḡC,CḡCḡPIP°PI CḡC,P°C,P€CḡC,P€C±PSPs P·PSP°CḡCḡC%Cḡ
PīPμCḡPμPIP°PiCḡ PīPsCḡC-PIPSCḡPSPs P· PīP»P°CḡPμP±Ps PI PeC-PSCḡPμPIC-PN€ C,PsCḡCḡC-
PeCḡP€C,PμCḡC-Cḡ PsCḡC-PSPeP€ CḡPμCḡP€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°CḡCḡC%C- PīPμCḡPμPIP°PiP€ PSP°Pr PīP»P°CḡPμP±Ps PI CḡP°PjPeP°C...
P·P°PiPsP±C-PiP°PSPSCḡ CḡPμCḡP€PrP€PICḡ PjP°PSC-C— P°P±Ps CḡPμCḡP€PrP€PICḡ
PrPμPiCḡPμCḡC-C—.

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

PJ P·PrPsC $\overline{\text{H}}$ PsPIP $\overline{\text{C}}$... PrPsP $\pm$ C $\overline{\text{H}}$ PsPIP $\overline{\text{S}}$ P»CHC†C-PI P»C-C,PSCH $\overline{\text{H}}$ PsPiPs PIC-PeCr (PIC-Pr 65 C $\overline{\text{H}}$ PsPeC-PI) PiPsC $\overline{\text{H}}$ C-PIPSC $\overline{\text{H}}$ PPSPs P·PjPsP»PsPrC€PëPjPë P·P° PIC-PePsPj PrPsP $\pm$ C $\overline{\text{H}}$ PsPIP $\overline{\text{S}}$ P»CHC†C $\overline{\text{H}}$ PjPë, CÍP μ C $\overline{\text{H}}$ P μ PrPSC-PNë PiP μ C $\overline{\text{H}}$ C-PsPr PSP°PíC-PIPIPëPIP μ PrP μ PSPSC $\overline{\text{H}}$ P $\pm$ CrPI C,C $\overline{\text{H}}$ PëPIP°P»C-C€PëPNë (51,8 PiC $\overline{\text{H}}$ PsC,PëB 33,8 PiPsPrPëPSPë), PeP»C-C $\overline{\text{H}}$ P μ PSCÍ Cr PiP»P°P·PjC- PeC $\overline{\text{H}}$ PsPIC- P $\pm$ CrPI P·PSPëP¶P μ PSPëPNë (17,5 PiC $\overline{\text{H}}$ PsC,Pë 18,2 P»/PiPsPr). P¶P°C $\overline{\text{H}}$ PjP°PePsPeC-PSP μ C,PëC†PSC-PePsP»PëPIP°PSPSC $\overline{\text{H}}$, C°Ps CÍPiPsCÍC,P μ C $\overline{\text{H}}$ C-PiP°P»PëCÍC $\overline{\text{H}}$ Cr PrPsP $\pm$ C $\overline{\text{H}}$ PsPIP $\overline{\text{S}}$ P»CHC†C-PI P»C-C,PSCH $\overline{\text{H}}$ PsPiPs PIC-PeCr, P·PSP°C...PsPrC $\overline{\text{H}}$ C,CHCÍC $\overline{\text{H}}$ Cr PjP μ P¶P°C... PrC-P°PiP°P·PsPSCÍ PrP»C $\overline{\text{H}}$ PjPsP»PsPrC€PëC... PrPsP $\pm$ C $\overline{\text{H}}$ PsPIP $\overline{\text{S}}$ P»CHC†C-PI. PJ 44 C...PIPsC $\overline{\text{H}}$ PëC... PSP° C€PëP·PsC,,C $\overline{\text{H}}$ P μ PSC-C $\overline{\text{H}}$ PIC-PePsPj > 65 C $\overline{\text{H}}$ PsPeC-PI PrPsP·CÍPIP°PSPSC $\overline{\text{H}}$ PIC-Pr 5 PrPs 20 PjPi/PrPsP $\pm$ Cr PSP μ P $\pm$ CrP»Ps PiPsPiB $\overline{\text{H}}$ ™ C $\overline{\text{H}}$ P·P°PSPs P·P¶PsPrPSPëPj C...P°C $\overline{\text{H}}$ P°PeC,P μ C $\overline{\text{H}}$ PSPëPj PiC $\overline{\text{H}}$ PsC,,C-P»P μ Pj PSP μ P $\pm$ P°P¶P°PSPëC... C $\overline{\text{H}}$ PIPëC°.

PJ P¶C-PSPsPe P¶PsC¶C-PIPSC¶PSPs P· C¶PsP»PsPIC-PeP°PjPë C¶P¶C¶P¶PrPSC-PNë
P¶P¶C¶C-PsPr PSP°P¶C-PIPIP¶PIP¶PrP¶PSPSC¶ P±C¶PI C,C¶P¶PIP°P»C-C¶P¶PNë
(36,7 P¶C¶PsC,Pë 32,3 P¶PsPrP¶PSPë) C,P° PeP»C-C¶P¶PSC¶ C¶ P¶P»P°P·PjC- PeC¶PsPIC-
P±C¶PI P·PSP¶P¶P¶PSP¶PNë (18,9 P¶C¶PsC,Pë 27,3 P»/P¶PsPr). P¶PrPSP°Pe
PsP»P°PSP·P°P¶C-PS (5-20 PjPi) P¶PsPeP°P·P°PI P¶PsC¶C-PIPSC¶PSP¶PNë
P¶C¶PsC,,C-P»CH P±P¶P·P¶P¶PePë C¶Pe C¶ P¶C-PSPsPe (N=467), C,P°Pe C- C¶
C¶PsP»PsPIC-PeC-PI (N=869).

P¶P°C¶C-C"°PSC,Pë P· PSPëC¶PePsPIP¶sC¶ PSP¶PrPsC¶C,P°C,PSC-C¶C,C¶.

PJ P¶P°C¶C-C"°PSC,C-PI P· PSPëC¶PePsPIP¶sC¶ PSP¶PrPsC¶C,P°C,PSC-C¶C,C¶ (PeP»C-C¶P¶PSC¶
PeC¶P¶P°C,PëPSC-PSC¶ < 10 PjP»/C...PI) P¶PsC¶C-PIPSC¶PSPs P·C- P·PrPsC¶PsPIP¶PjPë
PrPsP±C¶PsPIP¶sP»CHC¶C¶PjPë, PSP¶ P±C¶P»Ps C-C¶C,PsC,PSPsC— C¶C-P·PSPëC¶C- PI
P¶PsPeP°P·PSPëPeP°C... C¶P¶C¶P¶PrPSC¶PsPiPs P¶P¶C¶C-PsPrC¶
PSP°P¶C-PIPIP¶PIP¶PrP¶PSPSC¶ (37,7 P¶C¶PsC,Pë 32,4 P¶PsPrP¶PSPë) P°P±Ps
PeP»C-C¶P¶PSC¶C¶ C¶ P¶P»P°P·PjC- PeC¶PsPIC- (21,2 P¶C¶PsC,Pë 25,0 P»/P¶PsPr).
P"°P¶C¶P»C-PrP¶P¶PSPSC¶ P¶PsPeP°P·P°P»Pë, C%°Ps P¶C¶PëP±P»PëP·PSPs 57 %
PsP»P°PSP·P°P¶C-PSC¶ P· C¶P°PrC-PsP°PeC,PëPIP¶sC¶ PjC-C,PePsC¶
P¶C¶PëC¶C¶C,PSC- PI C¶P¶C¶C-, PiPsP»PsPIP¶Pj C¶PëPSPsPj C¶ PIP¶PiP»C¶PrC-
PjP¶C,P°P±PsP»C-C,C-PI.

P¶P°C¶C-C"°PSC,Pë P· P¶P¶C¶C-PSPePsPIP¶sC¶ PSP¶PrPsC¶C,P°C,PSC-C¶C,C¶.

PJ P¶C¶PsC¶P¶C¶C- PrPsC¶P»C-PrP¶P¶PSPSC¶ PIP¶P»PëPIC¶ P¶P¶C¶C-PSPePsPIP¶sC—
PSP¶PrPsC¶C,P°C,PSPsC¶C,C- P· C¶C¶P°C¶C,C¶ 6 P¶P°C¶C-C"°PSC,C-PI P· PeP»C-PSC-C¶PSPs
P·PSP°C¶C¶C%°PëPj C¶PëC¶PsP·PsPj (PeP»P°C¶ A (n = 5) C,P° B (n = 1) P·P° C¶PeP°P»PsC¶
P¶P°PNëP»PrP°-P¶P¶™ C¶) P±C¶P»Ps PIPëC¶PIP»P¶PSPs PSP¶P·PSP°C¶PSP¶PNë PIP¶P»PëPI PSP°
C,,P°C¶PjP°PePsPeC-PSP¶C,PëPeC¶ P¶P¶C¶PsC¶P°P»CHPSPs PIP¶P¶PrP¶PSPsPiPs
PsP»P°PSP·P°P¶C-PSC¶ (PsPrPSPsC¶P°P·PsPIP° PrPsP·P° C¶C,P°PSPsPIPëC,CH 2,5-7,5 PjPi).
P¶P°C¶C-C"°PSC,Pë P· P»P¶PiPePëPjPë C,P° P¶PsPjC-C¶PSPëPjPë P¶PsC¶C¶C¶P¶PSPSC¶PjPë
C,,C¶PSPeC¶C— P¶P¶C¶C-PSPePë PjP°P»Pë PrP¶C%°Ps P¶C-PrPIPëC%°P¶PSP¶PNë
C¶PëC¶C,P¶PjPSP¶PNë PeP»C-C¶P¶PSC¶ C,P° P±C-P»CHC¶ C¶PIPëPrPePëPNë P¶P¶C¶C-PsPr
PIP¶PIP¶PrP¶PSPSC¶ P¶PsC¶C-PIPSC¶PSPs P· P¶P°C¶C-C"°PSC,P°PjPë, C¶ C¶PePëC... PSP¶
P±C¶P»Ps P¶PsC¶C¶C¶P¶PSPSC¶ C,,C¶PSPeC¶C— P¶P¶C¶C-PSPePë (n = 3). P¶P¶C¶P¶Pr
P¶P°C¶C-C"°PSC,C-PI C-P· C¶PëC¶PsP·PsPj P±C¶P»Ps P±C-P»CHC¶P¶ PeC¶C¶C¶C-PI (4/6; 67 %),
PSC-P¶ C¶P¶C¶P¶Pr P¶P°C¶C-C"°PSC,C-PI P±P¶P· P¶PsC¶C¶C¶P¶PSPSC¶ C,,C¶PSPeC¶C—
P¶P¶C¶C-PSPePë (0/3; 0 %).

P¶P°C¶C-C"°PSC,Pë, C¶PeC- P¶P°P»C¶C,C¶.

P' PsC¶C-P±, C¶PeC- PSP¶ P¶P°P»C¶C,C¶, P¶PsC¶C-PIPSC¶PSPs P· PsC¶PsP±P°PjPë, C¶PeC-
PjP°C¶C,C¶ P·PIPëC¶PeC¶ P¶P°P»PëC,Pë (C¶PsP»PsPIC-PePë C- P¶C-PSPePë),
C¶P¶C¶P¶PrPSC-PNë P¶P¶C¶C-PsPr PSP°P¶C-PIPIP¶PIP¶PrP¶PSPSC¶
P¶PsPrPsPIP¶C¶PIP°PIC¶C¶ (38,6 P¶C¶PsC,Pë 30,4 P¶PsPrP¶PSPë), P° PeP»C-C¶P¶PSC¶ C¶
P¶P»P°P·PjC- PeC¶PsPIC- P±C¶PI P·PSP¶P¶P¶PSP¶PNë (18,6 P¶C¶PsC,Pë 27,7 P»/P¶PsPrP¶PSPC¶).

P¶P»C-C¶P¶PSC¶ PsP»P°PSP·P°P¶C-PSC¶ C¶ P¶P»P°P·PjC- PeC¶PsPIC- PSP¶P¶C¶PëPNë PI
PsC¶C-P± P»C-C,PSC¶PsPiPs PIC-PeC¶ P¶PsC¶C-PIPSC¶PSPs P· PjPsP»PsPrPëPjPë, C¶
P¶C-PSPsPe P¶PsC¶C-PIPSC¶PSPs P· C¶PsP»PsPIC-PeP°PjPë C,P° PI PsC¶C-P±, C¶PeC- PSP¶
P¶P°P»C¶C,C¶, P¶PsC¶C-PIPSC¶PSPs P· C,PëPjPë, C...C,Ps PjP°C" P·PIPëC¶PeC¶ P¶P°P»PëC,Pë.
P¶C¶PsC,P¶ C¶C,C¶P¶C-PSC¶ PIP¶P»PëPIC¶ PIC-PeC¶, C¶C,P°C,C- P°P±Ps P¶P°P»C-PSPSC¶

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¶PμPSCH̃ P· CÍC‡P°CT̃C,CT̃ P̃P°C†C-C°PSC,C-PI-
C°PICCT̃PsP̃PμPÑC†C-PI, P̃P°C†C-C°PSC,C-PI CÍP̃PsPSCÍCT̃H̃PePsC— C,P°
PeP̃C,P°PÑCÍCT̃H̃PePsC— 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¶PμPSCH̃ 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
CÍPμCT̃PμPrPSCH̃ 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,PePsPIP̃sP̃s 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,P̃PIPS̃PÑ 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,P̃PIPS̃CÍ PIC-PrP̃PsPIC-PrCH̃ P̃CT̃P̃
P»C-PeCÍPIP°PSPSC- PsP»P°PSP·P°P̃C-PSPsPjP°PSC-C—.

P_μC₇PsC,PëP_iPsPeP°P·P°PSPSC_{II}.

P_μC-PrPIPëC%P_μPSP° C±C_rC,P»PëPIC-C_rC,CH PrPs PrC-C_rC±PsC— C₇P_μC±PsPIPëPSPë P°P±Ps PrPs P±C_rPrCH-C_{II}PePsC— P· PrPsP_iPsPjC-P_{II}PSPëC... C₇P_μC±PsPIPëPS P_iC₇P_μP_iP°C₇P°C,C_r; PIC-PrPsPjPëP_μ C₇PëP·PëPe P·P°PeC₇PëC,PsPeC_rC,PsPIPsC— PiP»P°C_rPePsPjPë.

P'P·P°C''PjPsPrC-C_{II} P· C-PSC€PëPjPë P»C-PeP°C₇C_rCHPePëPjPë P·P°C_rPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C''PjPsPrC-PN₂.

P'C-PrPsPjPs, C%Ps PrPsC_rP»C-PrP_{II}PSPSC_{II} PIP·P°C''PjPsPrC-C— P· C-PSC€PëPjPë P»C-PeP°C₇C_rCHPePëPjPë P·P°C_rPsP±P°PjPë P_iC₇PsPIPsPrPëP»Pë C,C-P»CHPePë P· C_rC±P°C_rC,CH PrPsC₇PsC_rP»PëC... P_iP°C_rC-C''PSC,C-PI.

P'P·P°C''PjPsPrC-C—, C%Ps PjP°C_rC,CH P_iPsC,P_μPSC_rC-PN₂PSPëPN₂ PIP_iP»PëPI PSP° PsP»P°PSP·P°P_iC-PS

P_hC_rPeC-P»CHPePë PsP»P°PSP·P°P_iC-PS PjP_μC,P°P±PsP»C-P·C_rC''C,CHC_rC_{II} C-P·PsC,,P_μC₇PjP_μPSC,PsPj CYP1A2, C₇P_μC±PsPIPëPSPë, C%Ps C_rP_iP_μC_rPëC,,C-C±PSPs C-PSPiC-P±C_rC_rC,CH P°P±Ps C-PSPrC_rPeC_rC_rC,CH C_rP_μPN₂ C-P·PsC,,P_μC₇PjP_μPSC,, PjPsP_{II}C_rC,CH PIP_iP»PëPIP°C,Pë PSP° C,,P°C₇PjP°PePsPeC-PSP_μC,PëPeC_r PsP»P°PSP·P°P_iC-PSC_r.

P_rPSPrC_rPeC,PsC₇Pë CYP1A2

P_hP_μC,P°P±PsP»C-P·Pj PsP»P°PSP·P°P_iC-PSC_r PjPsP_{II}P_μ P±C_rC,Pë C-PSPrC_rPePsPIP°PSPëPN₂ P_iP°P»C-PSPSC_{II}Pj C,P° P·P°C_rC,PsC_rC_rPIP°PSPSC_{II}Pj PeP°C₇P±P°PjP°P·P_μP_iC-PSC_r, C_{II}PePëPN₂ P_iC₇PëP·PIPsPrPëC,CH PrPs P·PSPëP_{II}P_μPSPSC_{II} PePsPSC_rP_μPSC,C₇P°C_rC-C— PsP»P°PSP·P°P_iC-PSC_r. P_YP_iPsC_rC,P_μC₇C-PiP°P»PsC_rC_{II} C_rP»P°P±PeP_μ P°P±Ps P_iPsPjC-C₇PSP_μ P_iC-PrPIPëC%P_μPSPSC_{II} PeP»C-C₇P_μPSC_rC_r PsP»P°PSP·P°P_iC-PSC_r. P_hP»C-PSC-C±PSC-PIPëC_rPSPsPIPePë PsP±PjP_μP_{II}P_μPSC-, P°P»P_μ C₇P_μPePsPjP_μPSPrC_rC''C,CHC_rC_{II} PeP»C-PSC-C±PSPëPN₂ PjPsPSC-C,PsC₇PëPSPi C,P°, C_{II}PeC%Ps PSP_μPsP±C...C-PrPSPs, P·P±C-P»CHC€P_μPSPSC_{II} PrPsP·Pë PsP»P°PSP·P°P_iC-PSC_r (PrPëPI. C₇PsP·PrC-P» B«P_YP_iPsC_rC-P± P·P°C_rC,PsC_rC_rPIP°PSPSC_{II} C,P° PrPsP·PëB»).

P_rPSPiC-P±C-C,PsC₇Pë CYP1A2

P_hP»C_rPsPeC_rP°PjC-PS, C_rP_iP_μC_rPëC,,C-C±PSPëPN₂ C-PSPiC-P±C-C,PsC₇ CYP1A2, C-C_rC,PsC,PSPs P·PSPëP_{II}C_rC'' PjP_μC,P°P±PsP»C-P·Pj PsP»P°PSP·P°P_iC-PSC_r. P_iP_μ P_iC₇PëP·PIPsPrPëC,CH PrPs C_rP_μC₇P_μPrPSCHPsPiPs P·C₇PsC_rC,P°PSPSC_{II} PjP°PeC_rPëPjP°P»CHPSPsC— PePsPSC_rP_μPSC,C₇P°C_rC-C— (C_{max}) P_iC-C_rP»C_{II} P_iC₇PëPN₂PsPjC_r C,,P»C_rPsPeC_rP°PjC-PSC_r PSP° 54 % C_rP_μC₇P_μPr P_{II}C-PSPsPe, C_{II}PeC- PSP_μ P_iP°P»C_{II}C,CH, C,P° PSP° 77 % C_rP_μC₇P_μPr C±PsP»PsPIC-PeC-PI, C_{II}PeC- P_iP°P»C_{II}C,CH. P_YP_μC₇P_μPrPSC'' P·C₇PsC_rC,P°PSPSC_{II} P_iP»PsC%C- P_iC-Pr C,,P°C₇PjP°PePsPeC-PSP_μC,PëC±PSPsC_h PeC₇PëPIPsC_h B«PePsPSC_rP_μPSC,C₇P°C_rC-C_{II}C±P°C_rB» (AUC) PsP»P°PSP·P°P_iC-PSC_rB C_rC,P°PSPsPIPeC,CH 52 % C,P° 108 % PIC-PrP_iPsPIC-PrPSPs. P''P»C_{II} P_iP°C_rC-C''PSC,C-PI, C_{II}PeC- P·P°C_rC,PsC_rPsPIC_rC_rC,CH C,,P»C_rPsPeC_rP°PjC-PS P°P±Ps P±C_rPrCH-C_{II}PeC- C-PSC€C- C-PSPiC-P±C-C,PsC₇Pë CYP1A2, PSP°P_iC₇PëPeP»P°Pr C_rPëP_iC₇PsC,,P»PsPeC_rP°C_rPëPS, PSP_μPsP±C...C-PrPSPs

PiC7P6P·PSP°C±P°C,P6 P·PSP6P¶PµPSC- PrPsP·P6 PsP»P°PSP·P°PiC-PSCr. PkPµPsP±C...C-PrPSPs
C7PsP·PiP»C¶PSCrC,P6 PjPsP¶P»P6PIC-ClC,CH P·PSP6P¶PµPSPSC¶ PrPsP·P6
PsP»P°PSP·P°PiC-PSCr, C¶PeC%Ps C-PSC-C†C-PN6PsPIP°PSPs P»C-PeCrPIP°PSPSC¶
C-PSPiC-P±C-C,PsC7PsPj CYP1A2.

P—PSP6P¶PµPSPSC¶ P±C-PsPrPsClC,CrPiPSPsClC,C-

P—P°ClC,PsClCrPIP°PSPSC¶ P°PeC,P6PIPsPIP°PSPsPiPs PICrPiC-P»P»C¶
P·PSP6P¶CrPIP°P»Ps PiPµC7PsC7P°P»CHPSCr P±C-PsPrPsClC,CrPiPSC-ClC,CH
PsP»P°PSP·P°PiC-PSCr PSP° 50-60 % C- PiPsPIP6PSPSPs
P·P°ClC,PsClPsPICrPIP°C,P6ClC¶ PiC7PsC,C¶PiPsPj 2 PiPsPrP6PS PrPs
PiC7P6PN6PsPjCr P°P±Ps 2 PiPsPrP6PS PiC-ClP»C¶ PiC7P6PN6PsPjCr
PsP»P°PSP·P°PiC-PSCr.

PαP»CrPsPeClPµC,P6PS (C-PSPiC-P±C-C,PsC7 CYP 2D6), PsPrPSPsC7P°P·PsPIP° PrPsP·P°
P°PSC,P°C†P6PrC-PI, C%Ps PjC-ClC,C¶C,CH P°P»CHPjC-PSC-PN6 C,P° PjP°PiPSC-PN6, P°P±Ps
C†P6PjPµC,P6PrP6PSCr C-ClC,PsC,PSPs PSPµ PIPiP»P6PIP°P»P6 PSP°
C,,P°C7PjP°PePsPeC-PSPµC,P6PeCr PsP»P°PSP·P°PiC-PSCr.

PµPsC,PµPSC†C-PN6PSP° P·PrP°C,PSC-ClC,CH PsP»P°PSP·P°PiC-PSCr
PIP·P°C”PjPsPrC-C¶C,P6 P· C-PSC€P6PjP6 P»C-PeP°C7ClCHPeP6PjP6 P·P°ClPsP±P°PjP6

PhP»P°PSP·P°PiC-PS PjPsP¶Pµ PIP6C¶PIP»C¶C,P6 P°PSC,P°PiPsPSC-P·Pj PrPs
PµC,,PµPeC,C-PI PiC7C¶PjP6C... C,P° PSPµPiC7C¶PjP6C... P°PiPsPSC-ClC,C-PI
PrPsPiP°PjC-PSCr.

PhP»P°PSP·P°PiC-PS PSPµ PiC7P6PiPSC-C†CrPIP°PI PsClPSPsPIPSC- CYP 450-
C-P·PsC,,PµC7PjPµPSC,P6 (PSP°PiC7P6PeP»P°Pr, 1P62, 2D6, 2C9, 2C19, 3A4) *in vitro*. PŷP°PeP6Pj
C†P6PSPsPj, PSPµ PsC†C-PeCrC”C,CHClC¶ PSC-C¶PeP6C... PsClPsP±P»P6PIP6C...
PIP·P°C”PjPsPrC-PN6, 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 PiC7P6 P·P°ClC,PsClCrPIP°PSPSC- C,P°PeP6C...
P°PeC,P6IPSP6C... C7PµC†PsPIP6PS: C,C7P6C†P6PeP»C-C†PSP6C...
P°PSC,P6PrPµPiC7PµClP°PSC,C-PI (C%Ps PiC7PµPrClC,P°PIP»C¶CHC,CH
PiPµC7PµPIP°P¶PSPs C€P»C¶C... CYP2D6), PIP°C7C,,P°C7P6PSCr (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
PiC7P6 P·P°ClC,PsClCrPIP°PSPSC- PN6PsPiPs P· P»C-C,C-C”Pj P°P±Ps
P±C-PiPµC7P6PrPµPSPsPj.

PŷPµC7P°PiPµPIC,P6C†PSP6PN6 PjPsPSC-C,PsC7P6PSPi C7C-PIPSC¶
PIP°P»CHPiC7PsP°C,Cr Cr PiP»P°P·PjC- PeC7PsPIC- PSPµ PIP6C¶PIP6Pi
PSPµPsP±C...C-PrPSPsClC,C- PePsC7PµPeC†C-C— PrPsP·P6 PIP°P»CHPiC7PsP°C,Cr
PiC7P6 ClCrPiCrC,PSCHPsPjCr P·P°ClC,PsClCrPIP°PSPSC- P· PsP»P°PSP·P°PiC-PSPsPj.

P—P°PiP°P»CHPSP° P°PeC,P6IPSC-ClC,CH C%PsPrPs C†PµPSC,C7P°P»CHPSPsC—
PSPµC7PIPsIPsC— ClP6ClC,PµPjP6 (PiP6Pŷ)

P— PsP±PµC7PµP¶PSC-ClC,CH ClP»C-Pr P·P°ClC,PsClPsPICrPIP°C,P6

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,PSCHPsPiPs 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-

PJ C...PsPrC- PeP»C-PSC-C†PSPëC... PrPsC†P»C-PrP¶PuPSCHb
C†PïPsC†C,PuCTjC-PiP°P»PëC†C¶ PIPëPïP°PrPePë
C†PuCTjPuP±CTjPsPIP°C†PeC†P»C¶CTjPSPëC... PïPsP±C-C†PSPëC... CTjPuP°PeC†C-PNë
(C-PSC†C†P»CHbC,, C,CTjP°PSP·PëC,PsCTjPSP° C-C€PuPjC-C†PSP° P°C,P°PeP°), Cr
C,PsPjCr C†PëC†P»C- P· P»PuC,P°P»CHbPSPëPj PSP°C†P»C-PrPePsPj.
PbC-P»CHbPeC-C†C,CHb C†PuCTjPuP±CTjPsPIP°C†PeC†P»C¶CTjPSPëC...
PïPsP±C-C†PSPëC... CTjPuP°PeC†C-PNë P±C†P»P° Cr 3 CTjP°P·Pë PIPëC‰P° Cr
PïP°C†C-C”PSC,C-PI, C¶PeC- PïCTjPëPNëPjP°P»Pë PsP»P°PSP·P°PïC-PS,
PïPsCTjC-PIPSC¶PSPs P· PïP»P°C†PuP±Ps (1,3 % PïCTjPsC,Pë 0,4 %
PIC-PrPïPsPIC-PrPSPs). PJC†C- PïP°C†C-C”PSC,Pë, C¶PeC- PïCTjPëPNëPjP°P»Pë
PsP»P°PSP·P°PïC-PS P°P±Ps PïP»P°C†PuP±Ps C- Cr C¶PePëC...
C†PïPsC†C,PuCTjC-PiP°P»PëC†C¶ C†PuCTjPuP±CTjPsPIP°C†PeC†P»C¶CTjPSC-
PïPsP±C-C†PSC- CTjPuP°PeC†C-C—, PjP°P»Pë C,,P°PeC,PsCTjPë CTjPëP·PëPeC†. P’C-Pe
PIC-Pr 75 CTjPsPeC-PI C,P° C†C†PrPëPSPSPëPNë/P·PjC-C€P°PSPëPNë C,PëPï
PrPuPjPuPSC†C-C— P±C†P»Pë C-PrPuPSC,PëC,,C-PePsPIP°PSC- C¶Pe C,,P°PeC,PsCTjPë
CTjPëP·PëPeC† C†PuCTjPuP±CTjPsPIP°C†PeC†P»C¶CTjPSPëC... PïPsP±C-C†PSPëC...
CTjPuP°PeC†C-PNë PïCTjPë C,PuCTjP°PïC-C— PsP»P°PSP·P°PïC-PSPsPj.
P·C,,PuPeC,PëPIPSC-C†C,CHb PsP»P°PSP·P°PïC-PSC† PSPu P±C†P»P°
PIC†C,P°PSPsPIP»PuPSP° Cr C...PsPrC- PrP°PSPëC... PrPsC†P»C-PrP¶PuPSCHb.

PIPIPsCTjPsP±P° PμP°CTjPeC-PSCfPsPSP°. PκPμ CTjPμPePsPjPμPSPrPsPIP°PSPs
P·P°CfC,PsCfCfPIP°PSPSCf PsP»P°PSP·P°PiC-PSCf PI C,PμCTjP°PiC-C— PiCfPëC...PsP·C-PI,
C%Ps P°CfPsCfC-PNëPsPIP°PSC- P· P°PiPsPSC-CfC,P°PjPë PrPsPiP°PjC-PSCf Cr
PiP°CfC-C" PSC,C-PI C-P· C...PIPsCTjPsP±PsCf PμP°CTjPeC-PSCfPsPSP°. PJ C...PsPrC-
PeP»C-PSC-CfPSPëC... PrPsCfP»C-PrP¶PμPSCH PrCfP¶Pμ CfP°CfC,Ps
CfPiPsCfC,PμCTjC-PiP°P»PsCfCf PiPsPiC-CTjC€PμPSPSCf CfPëPjPiC,PsPjP°C,PëPePë
C...PIPsCTjPsP±Pë PμP°CTjPeC-PSCfPsPSP° C,P° PiP°P»CfCfPëPSP°CfC-PNë, CfP°CfC,C-C€Pμ,
PSC-P¶ PiCTjPë PiCTjPëPNëPsPjC- PiP»P°CfPμP±Ps (PrPëPI. CTjPsP·PrC-P» B«PμPsP±C-CfPSC-
CTjPμP°PeCfC-C—B»); PiCTjPë P»C-PeCfPIP°PSPSC- PiCfPëC...PsC,PëCfPSPëC...
CfPëPjPiC,PsPjC-PI C,PμCTjP°PiC-Cf PsP»P°PSP·P°PiC-PSPsPj PSPμ P±CfP»P° P±C-P»CHC€
PμC,,PμPeC,PëIPSPsCf PiPsCTjC-PIPsCfPSPs C-P· P·P°CfC,PsCfCfPIP°PSPSCfPj
PiP»P°CfPμP±Ps. P— CfP°PjPsPiPs PiPsCfP°C,PeCf CfPëC... PrPsCfP»C-PrP¶PμPSCH PIC-Pr
PiP°CfC-C" PSC,C-PI PiPëPjP°PiP°P»PsCfCf PiPsCfC,C-PNëPSPμ P·P°CfC,PsCfPsPICfPIP°PSPSCf
PSP°PNëPjPμPSC€PsC— PμC,,PμPeC,PëIPSPsC— PrPsP·Pë
P°PSC,PëPiP°CTjPeC-PSCfPsPSC-CfPSPëC... P»C-PeP°CTjCfCHPePëC... P·P°CfPsP±C-PI
(P°PiPsPSC-CfC,C-PI PrPsPiP°PjC-PSCf), P° C,P°PePsP¶ P·P°CfC,PsCfPsPICfPIP°PSPSCf
C,PëC... CfP°PjPëC... P°PSC,PëPiP°CTjPeC-PSCfPsPSC-CfPSPëC... P»C-PeP°CTjCfCHPePëC...
P·P°CfPsP±C-PI C- PrPsP· PiCTjPsC,CfPiPsPj CrCfCHPsPiPs PrPsCfP»C-PrP¶PμPSPSCf.
PÿPμCTjP°PiC-Cf PsP»P°PSP·P°PiC-PSPsPj P±CfP»Ps CTjPsP·PiPsCfP°C,Ps P· PrPsP·Pë 2,5
PiPi/PrPsP±Cf, CfPeCf P·P±C-P»CHC€CfPIP°P»Pë C€P»CfC...PsPj C,PëC,CTjCfPIP°PSPSCf PrPs

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

PkPμPNëCtjPsP»PμPiC,PëC±PSPëPNë P·P»PsCtjPeC-CÍPSPëPNë CÍPëPSPrCtjPsPj.
PkPμPNëCtjPsP»PμPiC,PëC±PSPëPNë P·P»PsCtjPeC-CÍPSPëPNë CÍPëPSPrCtjPsPj (PkP—PŸ) bTj“
C†Pμ PiPsC,PμPSC†C-PNëPSPs P»PμC,P°P»CHbPSPëPNë
CÍPëPjPiC,PsPjPsPePsPjPiP»PμPeCÍ, PsPiPëCÍP°PSPëPNë Cr P·PIbTj™ CtjP·PeCr P·
P°PSC,PëPiCÍPëC...PsC,PëC±PSPëPjPë PiCtjPμPiP°CtjP°C,P°PjPë. P C-PrPePs
PiPsPIC-PrPsPjP»CtjP»PsCÍCtj PiCtjPs PiPëPiP°PrPePë PkP—PŸ, PiPsPIbTj™ CtjP·P°PSC-
C-P· P·P°CÍC,PsCÍCrPiP°PSPSCtjPj PsP»P°PSP·P°PiC-PSCf. PjP»C-PSC-C±PSPëPjPë
PiCtjPsCtjPiP°PjPë PkP—PŸ C” PiC-PiPμCtjPiC-CtjPμPeCÍC-Ctj, PjPbTj™ CtjP·PsPiP°
CtjPëPiC-PrPSC-CÍC,CHb, PIC,CtjP°C,P° CÍPIC-PrPsPjPsCÍC,C- C,P° CÍPëPjPiC,PsPjPë
CÍPμCtjC†PμPiPsC— PSPμCÍC,P°P±C-P»CHbPSPsCÍC,C- (PSPμCtjPμPiCrP»CtjCtjPSC-
PiCrP»CHbCÍ P°P±Ps P·PjC-PSP° P°CtjC,PμCtjC-P°P»CHbPSPsPiPs C,PëCÍPeCr,
C,P°C...C-PeP°CtjPrC-Ctj, PiC-PrPiPëC%PμPSPμ PiPsC,PsPiPëPrC-P»PμPSPSCtj C,P°
CÍPμCtjC†PμPiP° P°CtjPëC,PjC-Ctj). P”PsPrP°C,PePsPIC- PsP·PSP°PePë PjPsP¶CrC,CHb
PiPeP»CtjC†P°C,Pë PiC-PrPiPëC%PμPSPëPNë CtjC-PIPμPSCb
PeCtjPμP°C,PëPSC-PSC,,PsCÍC,,PsPeC-PSP°P·Pë, PjC-PsPiP»PsP±C-PSCfCtjC-Ctj
(CtjP°P±PrPsPjC-PsP»C-P·) C,P° PiPsCÍC,CtjCr PSPëCtjPePsPICf
PSPμPrPsCÍC,P°C,PSC-CÍC,CHb. PjP»C-PSC-C±PSPëPNë PiCtjPsCtjPi PkP—PŸ P°P±Ps
PSP°CtjPiPSC-CÍC,CHb PiC-PiPμCtjC,PμCtjPjC-C— P±PμP· PeP»C-PSC-C±PSPsPiPs
PiCtjPsCtjPiCf PkP—PŸ PiPsC,CtjPμP±CrC” PSPμPiP°PNëPSPsC— PIC-PrPjC-PSPë
PICÍC-C... P°PSC,PëPiCÍPëC...PsC,PëC±PSPëC... P·P°CÍPsP±C-PI, PiPeP»CtjC†P°CtjC†Pë
PsP»P°PSP·P°PiC-PS.

P”C-PiPμCtjPiP»C-PePμPjC-Ctj C- C†CzPeCtjPsPiPëPNë PrC-P°P±PμC,.

PkPμC†P°CÍC,Ps PiPsPIC-PrPsPjP»CtjP»Pë PiCtjPs PiC-PiPμCtjPiP»C-PePμPjC-Ctj
C,P°/P°P±Ps CtjPsP·PiPëC,PsPe C†CrPeCtjPsPiPsPiPs PrC-P°P±PμC,Cr P°P±Ps
PiPsPIC-CtjC€PμPSPSCtj PiPμCtjPμP±C-PiCr PiP¶Pμ C-CÍPSCfCtjC†PsPiPs,
P°CÍPsC†C-PNëPsPiP°PSPsPiPs P· PePμC,PsP°C†PëPrPsP·PsPj P°P±Ps PrC-P°P±PμC,PëC±PSPsCtj
PePsPjPsCtj, P° C,P°PePsP¶ PiCtjPs P»PμC,P°P»CHbPSC- PiPëPiP°PrPePë. P†PSPsPrC-
PiPsPIC-PrPsPjP»CtjP»PsCÍCtj PiCtjPs PiPsPiPμCtjPμPrPSC” PiC-PrPiPëC%PμPSPSCtj PjP°CÍPë
C,C-P»P°, C%Ps PjPsPiP»Ps P±CrC,Pë C,,P°PeC,PsCtjPsPj CtjPëP·PëPeCr.

P PμPePsPjPμPSPrPsPiP°PSPs PiCtjPsPiPsPrPëC,Pë PIC-PrPiPsPIC-PrPSPëPNë
PeP»C-PSC-C±PSPëPNë PjPsPSC-C,PsCtjPëPSPi PiP°C†C-C”PSC,C-PI C-P·
C†CrPeCtjPsPiPëPj PrC-P°P±PμC,PsPj C,P° PiP°C†C-C”PSC,C-PI P· C,,P°PeC,PsCtjP°PjPë
CtjPëP·PëPeCr CtjPsP·PiPëC,PeCr C†CrPeCtjPsPiPsPiPs PrC-P°P±PμC,Cr, P·PsPeCtjPμPjP°
PiPëPjC-CtjCtjPiP°C,Pë CtjC-PIPμPSCb PiP»CtjPePsP·Pë PI PeCtjPsPIC- PSP° PiPsC†P°C,PeCr
P»C-PeCrPiP°PSPSCtj, C†PμCtjPμP· 12 C,PëP¶PSC-PI, P° C,P°PePsP¶ C%PsCtjC-C±PSPs Cr
PiPsPrP°P»CHbC€PsPjCr. PμP°C†C-C”PSC,Pë, CtjPeC- PsC,CtjPëPjCrCtjC,CHb
P»C-PeCrPiP°PSPSCtj P°PSC,PëPiCÍPëC...PsC,PëC±PSPëPjPë P·P°CÍPsP±P°PjPë,
PiPeP»CtjC†P°CtjC†Pë PsP»P°PSP·P°PiC-PS, PiPsPiPëPSPSC- P±CrC,Pë PiC-Pr PSP°PiP»CtjPrPsPj
CÍC,PsCÍPsPiPSPs PiCtjPsCtjPiC-PI PsP·PSP°Pe C,P° CÍPëPjPiC,PsPjC-PI
PiC-PiPμCtjPiP»C-PePμPjC-C— (C,P°PePëC... CtjPe PiPsP»C-PrPëPiCÍC-Ctj, PiPsP»C-CrCtjC-Ctj,
PiPsP»C-C,,P°PiC-Ctj C,P° CÍP»P°P±PeC-CÍC,CHb). PμP°C†C-C”PSC,C-PI P· C†CrPeCtjPsPiPëPj
PrC-P°P±PμC,PsPj C,P° PiP°C†C-C”PSC,C-PI P· C,,P°PeC,PsCtjP°PjPë CtjPëP·PëPeCr
CtjPsP·PiPëC,PeCr PrC-P°P±PμC,Cr PSPμPsP±C...C-PrPSPs CtjPμPiCrP»CtjCtjPSPs
PePsPSC,CtjPsP»CtjPiP°C,Pë C%PsPrPs PiPsPiC-CtjC€PμPSPSCtj CtjC-PIPSCtj

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, PëP₇||PSC-, C₇P_μC₇H₅P_μP· 8 C, PëP₇||PSC-PI C, P° C₇P_μC₇H₅P_μP·
12 C, PëP₇||PSC-PI, P° C, P°PePsP₇|| PsPrPëPS C₇H₅P°P· PSP° PePIP°C₇C, P°P» C₇
PiPsPrP°P»CHC€PsPjC₇.

P—PjC-PSPë C₇H₅C-PIPSC₇ P»C-PiC-PrC-PI. P₇K_μP_μP±P°P₇||P°PSC- P·PjC-PSPë C₇H₅C-PIPSC₇
P»C-PiC-PrC-PI C₇ PiPsC₇C₇, 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-PIPSC₇ P»C-PiC-PrC-PI C₇P»C-Pr PePsC₇H₅P_μPiC₇PIP° C, Pë PSP°P»P_μP₇||PSPëPj
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 C₇H₅PsP·PIPëC, PeC₇
PiPsC₇C₇C€P_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-PIPSC- P»C-PiC-PrC-PI C₇
PeC₇H₅PsPIC-, PSP°PiC₇H₅PëPeP»P° Pr, PSP° PiPsC₇P° C, PeC₇ P»C-PeC₇PIP°PSPSC₇, C₇P_μC₇H₅P_μP· 12
C, PëP₇||PSC-PI, P° C, P°PePsP₇|| PePsP₇||PSC- 5 C₇H₅PsPeC-PI C₇ PiPsPrP°P»CHC€PsPjC₇.

P₇hPSC, PëC...PsP»C-PSP_μC₇H₅PiC-C₇PSP° P°PeC, PëPIPSC-C₇C, CH₅. Pj C...PsPrC-
PeP»C-PSC-C₇PSPëC... PrPsC₇P»C-PrP₇||P_μPSCH₅ PIPëC₇PIP»P_μPSPs PSPëP·CH₅PeC₇
C₇P°C₇C, PsC, C₇ P°PSC, PëC...PsP»C-PSP_μC₇H₅PiC-C₇PSPëC... C₇IPIPëC%. P₇hPrPSP°Pe
C₇P_μC₇H₅P_μP· PsP±PjP_μP₇||P_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_μP₇||PSPëPjPë PiC₇H₅Pë PiC₇H₅PëP·PSP°C₇P_μPSPSC- PiC₇H₅P_μPiP°C₇P° C, C₇
PiP°C₇C-C°PSC, P°Pj C-P· PiC-PiP_μC₇H₅C, C₇H₅PsC₇, C-C°C₇ PiC₇H₅PsC₇C, P° C, Pë,
PiP°C₇P°P»C-C, PëC₇PSPsC₇ PePëC€PePsPIP₇C₇ 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-PIPSC₇ PiP_μC₇C-PSPePsPIPëC...
C, C₇H₅P°PSC₇P°PjC-PSP°P· P₇hP»P₇P₇ C, P° P₇hC₇P₇P₇, 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-PIPSP_μPj P₇hP»P₇P₇ C, P°/C₇Pë P₇hP»P₇P₇, PsP·PSP°PeP°PjPë
C, P° C₇PëPjPiC, PsPjP°PjPë PiPsC₇C₇C€P_μPSPSC₇ C₇, C₇PSPeC₇C-C— PiP_μC₇C-PSPePë,
PiP°C₇C-C°PSC, P°Pj C-P· PiPsPiP_μC₇H₅P_μPrPSCH₅Ps C-C₇PSC₇C₇C₇PëPjPë
C₇C, P°PSP°PjPë, PiPsPiB₇™ C₇IP·P°PSPëPjPë P· PsP±PjP_μP₇||P_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_μP₇||PSC-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-C€P°PSP_μ C₇C₇P°P₇||P_μPSPSC₇ PiP_μC₇C-PSPePë) PsP»P°PSP·P°PiC-PS
PSP_μPsP±C...C-PrPSPs PIC-PrPjC-PSPëC, Pë.

$P_k P_{\mu} P N_{\Sigma} C, C_{\eta} P s P i P_{\mu} P S C - C_{\eta}$. $P h P \gg P^{\circ} P S P \cdot P^{\circ} P i C - P S P S P_{\mu} P s P \pm C \dots C - P r P S P s P i C_{\eta} P e P \cdot P S P^{\circ} C \ddagger P^{\circ} C, P e$
 $P \cdot P s P \pm P_{\mu} C_{\eta} P_{\mu} P \parallel P S C - C_{\eta}^{\circ} C, C_{\eta} P i C_{\eta} P e P S P e P \cdot C h P e P s P j C r C_{\eta} C - P I P S C - P \gg P_{\mu} P N_{\Sigma} P e P s C \ddagger P e C, C - P I$
 $C, P^{\circ} / P^{\circ} P \pm P s P S P_{\mu} P N_{\Sigma} C, C_{\eta} P s C, C - P \gg C - P I P \cdot P \pm C r P r C h - C_{\eta} P e P s C - P i C_{\eta} P e C \ddagger P e P S P e$
 $P i P^{\circ} C \ddagger C - C^{\circ} P S C, P^{\circ} P j, C_{\eta} P e C - P s C, C_{\eta} P e P j C r C_{\eta} C, C h P \gg C - P e C r P I P^{\circ} P S P S C_{\eta}$
 $P i C_{\eta} P_{\mu} P i P^{\circ} C_{\eta} P^{\circ} C, P^{\circ} P j P e, C \% P s P j P s P \parallel C r C, C h C_{\eta} P i C_{\eta} P e C \ddagger P e P S P e C, P e$
 $P S P_{\mu} P N_{\Sigma} C, C_{\eta} P s P i P_{\mu} P S C - C_{\eta}, P i P^{\circ} C \ddagger C - C^{\circ} P S C, P^{\circ} P j, C_{\eta} P e C - P j P^{\circ} C_{\eta} C, C h P I P^{\circ} P S P^{\circ} P j P S P_{\mu} P \cdot C -$
 $P j P_{\mu} P r P e P e P^{\circ} P j P_{\mu} P S C, P s P \cdot P S P_{\mu} P i C_{\eta} P e P i P S C - C \ddagger P_{\mu} P S P S C_{\eta} / C, P s P e C_{\eta} P e C \ddagger P S P_{\mu}$
 $C r C_{\eta} P^{\circ} P \parallel P_{\mu} P S P S C_{\eta} P e C - C_{\eta}^{\circ} C, P e P s P I P s P i P s P j P s P \cdot P e C r, P i P^{\circ} C \ddagger C - C^{\circ} P S C, P^{\circ} P j C - P \cdot$
 $P i C_{\eta} P e P i P S C - C \ddagger P_{\mu} P S P S C_{\eta} P j P e C - C_{\eta}^{\circ} C, P e P s P I P s P i P s P j P s P \cdot P e C r, C_{\eta} P i C_{\eta} P e C \ddagger P e P S P_{\mu} P S P e P j$
 $C_{\eta} C r P i C r C, P S C - P j P e P \cdot P^{\circ} C \dots P I P s C_{\eta} C h P I P^{\circ} P S P S C_{\eta} P j P e, P s P i C_{\eta} P s P j C - P S P_{\mu} P S P S C_{\eta} P j P^{\circ} P \pm P s$
 $C \dots C - P j C - P s C, P_{\mu} C_{\eta} P^{\circ} P i C - C^{\circ} C_{\eta}, C, P^{\circ} B P i P^{\circ} C \ddagger C - C^{\circ} P S C, P^{\circ} P j C - P \cdot$
 $P i C - P i P_{\mu} C_{\eta} P_{\mu} P s P \cdot P e P S P s C, C - P \gg C - C^{\circ} C_{\eta} C, P^{\circ} P j C - C^{\circ} P \gg P s P i C_{\eta} P s P \gg C - C, P_{\mu} C_{\eta} P^{\circ} C, P e P I P S P e P j$
 $P \cdot P^{\circ} C \dots P I P s C_{\eta} C h P I P^{\circ} P S P S C_{\eta} P j. P_k P_{\mu} P N_{\Sigma} C, C_{\eta} P s P i P_{\mu} P S C - C_{\eta} C^{\circ} C \ddagger P^{\circ} C_{\eta}^{\circ} C, P e P j P i P s P \pm C - C \ddagger P S P e P j$
 $P_{\mu} C, P_{\mu} P e C, P s P j P i C_{\eta} P e C_{\eta} P i C - P \gg C h P S P s P j C r P \cdot P^{\circ} C_{\eta}^{\circ} C, P s C_{\eta} C r P I P^{\circ} P S P S C -$
 $P I P^{\circ} P \gg C h P i C_{\eta} P s P^{\circ} C, C r C, P^{\circ} P s P \gg P^{\circ} P S P \cdot P^{\circ} P i C - P S C r (P r P e P I. C_{\eta} P s P \cdot P r C - P \gg B \ll P_{\mu} P s P \pm C - C \ddagger P S C -$
 $C_{\eta} P_{\mu} P^{\circ} P e C \ddagger C - C - B \gg).$

$P_{\mu} C_{\eta} P e P i P e P S P_{\mu} P S P S C_{\eta} C, P_{\mu} C_{\eta} P^{\circ} P i C - C -$. $P_{\mu} C_{\eta} P e C_{\eta} C - P \cdot P e P s P j C r$
 $P i C_{\eta} P e P i P e P S P_{\mu} P S P S C - C, P_{\mu} C_{\eta} P^{\circ} P i C - C - C_{\eta} C - P r P e P s (\geq 0,01 \% C, P^{\circ} 0,1 \%)$
 $P i P s P I C - P r P s P j P \gg C_{\eta} P \gg P e P i C_{\eta} P s P i P s C_{\eta}^{\circ} C, C_{\eta} C - C_{\eta} P e P j P i C, P s P j P e, P \cdot P s P e C_{\eta} P_{\mu} P j P^{\circ} P i C_{\eta} P s$
 $P S P^{\circ} P r P j C - C_{\eta} P S P_{\mu} P i P s C, P s P I P e P r C - P \gg P_{\mu} P S P S C_{\eta}, P \pm P_{\mu} P \cdot C_{\eta} P s P S P S C_{\eta}, C, C_{\eta} P_{\mu} P j P s C_{\eta},$
 $C_{\eta} P s P \cdot P r C_{\eta} P^{\circ} C, P s P I P^{\circ} P S C - C_{\eta}^{\circ} C, C h, P S C r P r P s C, C r P^{\circ} P \pm P s P \pm P \gg C_{\eta} P I P^{\circ} P S P S C_{\eta}.$

$Q T - C - P S C, P_{\mu} C_{\eta} P I P^{\circ} P \gg$. $P j C \dots P s P r C - P e P \gg C - P S C - C \ddagger P S P e C \dots P r P s C_{\eta} P \gg C - P r P \parallel P_{\mu} P S C h$
 $P e P \gg C - P S C - C \ddagger P S P s P \cdot P S P^{\circ} C \ddagger C r C \% P_{\mu} P i P s P r P s P I P \parallel P_{\mu} P S P S C_{\eta} C - P S C, P_{\mu} C_{\eta} P I P^{\circ} P \gg C r Q T c$
 $(P e P s C_{\eta} P_{\mu} P e C \ddagger C - C_{\eta} Q T P \cdot P^{\circ} P \gg C_{\eta} C - P r P_{\mu} C_{\eta} C - P e P s P j (Q T c F) \geq 500 P j C - P \gg C - C_{\eta} P_{\mu} P e C r P S P r$
 $(P j C_{\eta} P_{\mu} P e) C r P \pm C r P r C h - C_{\eta} P e P e P N_{\Sigma} C \ddagger P^{\circ} C_{\eta}^{\circ} P i C - C_{\eta} P \gg C_{\eta} P i P s C \ddagger P^{\circ} C, P e C r C, P_{\mu} C_{\eta} P^{\circ} P i C - C - C r$
 $P i P^{\circ} C \ddagger C - C^{\circ} P S C, C - P I C - P \cdot P i P s C \ddagger P^{\circ} C, P e P s P I P e P j Q T c F < 500 P j C_{\eta} P_{\mu} P e P r P s P i P s C \ddagger P^{\circ} C, P e C r$
 $C, P_{\mu} C_{\eta} P^{\circ} P i C - C -) C r P i P^{\circ} C \ddagger C - C^{\circ} P S C, C - P I, C_{\eta} P e C - P \gg C - P e C r P I P^{\circ} P \gg P e C_{\eta}^{\circ} C_{\eta}$
 $P s P \gg P^{\circ} P S P \cdot P^{\circ} P i C - P S P s P j, C_{\eta} P i P s C_{\eta}^{\circ} C, P_{\mu} C_{\eta} C - P i P^{\circ} P \gg P s C_{\eta}^{\circ} C_{\eta} P S P_{\mu} C \ddagger P^{\circ} C_{\eta}^{\circ} C, P s (P I C - P r 0,1 \%$
 $P r P s 1 \%). P_{\mu} P s C_{\eta} C - P I P S C_{\eta} P S P s P \cdot P i P \gg P^{\circ} C \ddagger P_{\mu} P \pm P s P S P_{\mu} P I P e C_{\eta} P I P \gg P_{\mu} P S P s P \cdot P S P^{\circ} C \ddagger P S P s C -$
 $C_{\eta} C - P \cdot P S P e C \ddagger C - C r C \ddagger P^{\circ} C_{\eta}^{\circ} C, P s C, C - P^{\circ} C_{\eta}^{\circ} P s C \ddagger C - P N_{\Sigma} P s P I P^{\circ} P S P e C \dots P e P^{\circ} C_{\eta} P r C - P^{\circ} P \gg C h P S P e C \dots$
 $P i P s P \pm C - C \ddagger P S P e C \dots C_{\eta} P_{\mu} P^{\circ} P e C \ddagger C - P N_{\Sigma}. P h P r P S P^{\circ} P e, C_{\eta} P e C - P i C_{\eta} P e P \gg C - P e C r P I P^{\circ} P S P S C -$
 $C - P S C \epsilon P e P j P e P^{\circ} P S C, P e P i C_{\eta} P e C \dots P s C, P e C \ddagger P S P e P j P e P \cdot P^{\circ} C_{\eta}^{\circ} P s P \pm P^{\circ} P j P e, P i C_{\eta} P e P \cdot P S P^{\circ} C \ddagger P^{\circ} C, P e$
 $P s P \gg P^{\circ} P S P \cdot P^{\circ} P i C - P S C r P e P s P j P \pm C - P S P^{\circ} C \ddagger C - C - P \cdot P i C_{\eta} P_{\mu} P i P^{\circ} C_{\eta} P^{\circ} C, P^{\circ} P j P e, C_{\eta} P e C -$
 $P j P s P \parallel C r C, C h C_{\eta} P i C_{\eta} P e C \ddagger P e P S P e C, P e P i C_{\eta} P s P \gg P s P S P i P^{\circ} C \ddagger C - C_{\eta} C - P S C, P_{\mu} C_{\eta} P I P^{\circ} P \gg C r Q T C_{\eta}^{\circ},$
 $C_{\eta} P \gg C - P r P \cdot P s P \pm P_{\mu} C_{\eta} P_{\mu} P \parallel P S C - C_{\eta}^{\circ} C, C_{\eta}, P s C_{\eta}^{\circ} P s P \pm P \gg P e P I P s P i P^{\circ} C \ddagger C - C^{\circ} P S C, P^{\circ} P j$
 $P \gg C - C, P S C h P s P i P s P I C - P e C r, P i P^{\circ} C \ddagger C - C^{\circ} P S C, P^{\circ} P j C - P \cdot P I C_{\eta} P s P r P \parallel P_{\mu} P S P e P j$
 $C_{\eta} P e P S P r C_{\eta} P s P j P s P j P i C_{\eta} P s P \gg P s P S P i P^{\circ} C \ddagger C - C - C - P S C, P_{\mu} C_{\eta} P I P^{\circ} P \gg C r Q T, P \cdot P^{\circ} C_{\eta}^{\circ} C, C - P N_{\Sigma} P S P s C_{\eta}$
 $C_{\eta} P_{\mu} C_{\eta} C \ddagger P_{\mu} P I P s C_{\eta} P S P_{\mu} P r P s C_{\eta}^{\circ} C, P^{\circ} C, P S C - C_{\eta}^{\circ} C, C_{\eta}, P i C - P i P_{\mu} C_{\eta} C, C_{\eta} P s C, C - C^{\circ} C_{\eta}$
 $C_{\eta} P_{\mu} C_{\eta} C \ddagger C_{\eta}, P i C - P i P s P e P^{\circ} P \gg C - C^{\circ} P j C - C^{\circ} C_{\eta} P^{\circ} P \pm P s P i C - P i P s P j P^{\circ} P i P S P_{\mu} P \cdot C - C^{\circ} P j C - C^{\circ} C_{\eta}.$

$P j C_{\eta} P s P j P \pm P s P_{\mu} P j P \pm P s P \gg C - C_{\eta}$. $P_k P_{\mu} C \ddagger P^{\circ} C_{\eta}^{\circ} C, P s P i P s P I C - P r P s P j P \gg C_{\eta} P \gg P s C_{\eta}^{\circ} C_{\eta} P i C_{\eta} P s$
 $C, P e P j C \ddagger P^{\circ} C_{\eta}^{\circ} P s P I P e P N_{\Sigma} P \cdot P i B_{\eta}^{\circ} C_{\eta} P \cdot P s P e P j C - P \parallel P \gg C - P e C r P I P^{\circ} P S P S C_{\eta} P j$
 $P s P \gg P^{\circ} P S P \cdot P^{\circ} P i C - P S P s P j C, P^{\circ} P I P e P i P^{\circ} P r P e P^{\circ} P j P e C_{\eta} P s P \cdot P I P e C, P e C r P I P_{\mu} P S P s P \cdot P S P s C -$
 $C, C_{\eta} P s P j P \pm P s P_{\mu} P j P \pm P s P \gg C - C - (\geq 0,1 \% B_{\eta}^{\circ} < 1 \%). P_{\mu} C_{\eta} P e C \ddagger P e P S P S P s -$
 $P S P^{\circ} C_{\eta} P \gg C - P r P e P s P I P s P i P s P \cdot P i B_{\eta}^{\circ} C_{\eta} P \cdot P e C r P j C - P \parallel P \gg C - P e C r P I P^{\circ} P S P S C_{\eta} P j$
 $P s P \gg P^{\circ} P S P \cdot P^{\circ} P i C - P S P s P j C, P^{\circ} C_{\eta} P s P \cdot P I P e C, P e P s P j P I P_{\mu} P S P s P \cdot P S P s C -$
 $C, C_{\eta} P s P j P \pm P s P_{\mu} P j P \pm P s P \gg C - C - P S P_{\mu} P I C_{\eta}^{\circ} C, P^{\circ} P S P s P I P \gg P_{\mu} P S P s. P h P r P S P^{\circ} P e, P \pm P_{\mu} C_{\eta} C r C \ddagger P e$
 $P r P s C r P I P^{\circ} P i P e C, P_{\mu}, C \% P s C r P i P^{\circ} C \ddagger C - C^{\circ} P S C, C - P I C - P \cdot C e P e P \cdot P s C, C_{\eta} P_{\mu} P S C - C^{\circ} C_{\eta}$
 $C \ddagger P^{\circ} C_{\eta}^{\circ} C, P s C_{\eta} P s P \cdot P I P e P I P^{\circ} C^{\circ} C, C h C_{\eta}^{\circ} C_{\eta} C_{\eta}^{\circ} C \dots P e P \gg C h P S C - C_{\eta}^{\circ} C, C h P r P s$

C, C₇PsPjP±PsPμPjP±PsP»C-C—, PSPμPsP±C...C-PrPSPs PIC₇P°C...PsPICíPIP°C, Pë CíCíC-
PjPsP¶P»PëPIC- C,, P°PeC, PsC₇Pë C₇PëP·PëPeCí, PSP°PíC₇PëPeP»P°Pr,
C-PjPjPsP±C-P»C-P·P°C†C-C₇ PíP°C†C-C''PSC, P°, C, P° PIP¶PëPIP°C, Pë PICíC-C...
PSPμPsP±C...C-PrPSPëC... PíPsPíPμC₇PμPrP¶CíPIP°P»CHbPSPëC... P·P°C...PsPrC-PI.

P—P°PíP°P»CHbPSP° PrC-C¶PSP° PíPíP₇. P' C₇P°C...PsPICíC₇C±Pë PíPμC₇PμPIP°P¶PSPëPN₆
PIPíP»PëPI PsP»P°PSP·P°PíC-PSCí PSP° PíPíP₇, PSPμPsP±C...C-PrPSPs
PíC₇PsPIPsPrPëC, Pë PrPsPrP°C, PePsPIC- P·P°CíC, PμC₇PμP¶PSC- P·P°C...PsPrPë PíC₇Pë
PíC₇PëPN₆PsPjC- PsP»P°PSP·P°PíC-PSCí C₇P°P·PsPj P· C-PSCëPëPjPë
PíC₇PμPíP°C₇P°C, P°PjPë C†PμPSC, C₇P°P»CHbPSPsC— PrC-C—, PíPeP»C₇C±P°C₇C±Pë
PIP¶PëPIP°PSPSC¶P°P»PePsPíPsP»C₇. PhP»P°PSP·P°PíC-PS *in vitro* PIPëC¶PIP»C¶C''
P°PSC, P°PíPsPSC-P·Pj PrPs PrPsPíP°PjC-PSCí C, P° PjPsP¶Pμ PíC₇PsC, PëPrC-C¶C, Pë
PμC,, PμPeC, P°Pj PíC₇C¶PjPëC... C- PSPμPíC₇C¶PjPëC... P°PíPsPSC-CíC, C-PI PrPsPíP°PjC-PSCí.

P·PíC-P»PμPíC, PëC±PSC- PSP°PíP°PrPë. PhP»P°PSP·P°PíC-PS PSPμPsP±C...C-PrPSPs P·
PsP±PμC₇PμP¶PSC-CíC, C₇ P·P°CíC, PsCíPsPICíPIP°C, Pë PíP°C†C-C''PSC, P°Pj P·
PμPíC-P»PμPíC, PëC±PSPëPjPë PSP°PíP°PrP°PjPë PI P°PSP°PjPSPμP·C- P°P±Ps
PíP°C†C-C''PSC, P°Pj, C±CíC, P»PëPIPëPj PrPs C,, P°PeC, PsC₇C-PI, C%Ps
P·PSPëP¶CíC₇C, CHb PíPsC₇C-Pí CíCíPrPsPjPSPsC— PíPsC, PsPIPsCíC, C-.
PíPμC±P°CíC, Ps PíPsPIC-PrPsPjP»C¶P»PsCíC¶PíC₇Ps PIPëPíP°PrPePë
PμPíC-P»PμPíC, PëC±PSPëC... PSP°PíP°PrC-PI PíC₇Pë P»C-PeCíPIP°PSPSC-
PsP»P°PSP·P°PíC-PSPsPj. Pj P±C-P»CHbCëPsCíC, C- C†PëC... PIPëPíP°PrPeC-PI PíP°C†C-C''PSC, Pë
PjP°P»Pë PI P°PSP°PjPSPμP·C- PμPíC-P»PμPíC, PëC±PSC- PSP°PíP°PrPë P°P±Ps C₇PëP·PëPe
C—C... PIPëPSPëPePSPμPSPSC¶P±CíPI PíC-PrPIPëC%PμPSPëPN₆.

PμC-P·PSC¶PíPëCíPeC-PSPμP·C-C¶Pj C...PsPrC- PíPsC₇C-PIPSC¶P»CHbPSPëC...
PeP»C-PSC-C±PSPëC... PrPsCíP»C-PrP¶PμPSCHb C, C₇PëPIP°P»C-CíC, C₇ PrPs PsPrPSPsPíPs
C₇PsPeCí PíC₇PëPN₆PsPj PsP»P°PSP·P°PíC-PSCí P°CíPsC†C-C₇PIP°PICíC¶P·C-
CíC, P°C, PëCíC, PëC±PSPs P·PSP°C±CíC%PëPj P·PSPëP¶PμPSPSC¶Pj C±P°CíC, PsC, Pë
PIPëPSPëPePSPμPSPSC¶PíPëCíPeC-PSPμP·C-C—, CíPíC₇PëC±PëPSPμPSPsC—
P»C-PeCíPIP°PSPSC¶Pj. P§PμC₇PμP· P·C₇PsCíC, P°C₇C±PëPN₆ C₇PëP·PëPe C₇PsP·PIPëC, PeCí
PíC-P·PSCHbPsC— PrPëCíPeC-PSPμP·C-C— PíC₇Pë C, C₇PëPIP°P»PsPjCí PíC₇PëPN₆PsPjC-
P°PSC, PëPíCíPëC...PsC, PëC±PSPëC... PíC₇PμPíP°C₇P°C, C-PI PSPμPsP±C...C-PrPSPμ
CíP·PíPsPrP¶PμPSPμ P·PSPëP¶PμPSPSC¶PíPsP·Pë P°P±Ps PíPsPIPsP° PIC-PrPjC-PSP°
PíC₇PμPíP°C₇P°C, Cí PíC₇Pë PíPsC¶PIC- Cí PíP°C†C-C''PSC, P° PsP·PSP°Pe C±Pë
CíPëPjPíC, PsPjC-PI PíC-P·PSCHbPsC— PrPëCíPeC-PSPμP·C-C—. P— C±P°CíPsPj C†C-
CíPëPjPíC, PsPjPë PjPsP¶CíC, CHb PíPsPíC-C₇CëCíPIP°C, PëCíC₇ P°P±Ps PSP°PIC-C, CHb
P·b₇TM C¶PIP»C¶C, PëCíC¶PíC-CíP»C¶PíC₇PëPíPëPSPμPSPSC¶P»C-PeCíPIP°PSPSC¶P.

PhC₇C, PsCíC, P°C, PëC±PSP° PíC-PíPsC, PμPSP·C-C¶PíPμC±P°CíC, Ps
PíPsPIC-PrPsPjP»C¶P»PsCíC¶PíC₇Ps PIPëPíP°PrPePë PsC₇C, PsCíC, P°C, PëC±PSPsC—
PíC-PíPsC, PμPSP·C-C— Cí PíP°C†C-C''PSC, C-PI P»C-C, PSCHbPsPíPs PIC-PeCí PI
C...PsPrC- PeP»C-PSC-C±PSPëC... PrPsCíP»C-PrP¶PμPSCHb. PμC-Pr C±P°Cí
P·P°CíC, PsCíCíPIP°PSPSC¶PíPsP»P°PSP·P°PíC-PSCí C₇PμPePsPjPμPSPíCíC, CHbCíC¶PíPμC₇C-
PsPrPëC±PSPμ PIPëPjC-C₇C₇PIP°PSPSC¶P°C₇C, PμC₇C-P°P»CHbPSPsPíPs C, PëCíPeCí
PíP°C†C-C''PSC, P°Pj PIC-PePsPj PIC-Pr 65 C₇PsPeC-PI.B

P P°PíC, PsPIP° CíPμC₇C†PμPIP° CíPjPμC₇C, CHb. Pj PíPsCíC, PjP°C₇PePμC, PëPSPíPsPIPëC...
P·PIC-C, P°C... PíPsPIC-PrPsPjP»C¶P»PsCíC¶PíC₇Ps PIPëPíP°PrPePë C₇P°PíC, PsPIPsC—
CíPμC₇C†PμPIPsC— CíPjPμC₇C, C-. P' C-PrPíPsPIC-PrPSPs PrPs

PIC-PrPjC-PSPë, CÍPëPjPíC,PsPjPë CÍPePëC... PjPsP¶CíC,CH PiC-CÍP»CÍP
PSP°CíPjPsPrP¶PµPSPSCÍ P·PjC-PSCíPíP°C,PëCÍCÍP 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 PiCíCíPíPíCí

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

PµPµCíC,PëP»CHPSC-CÍC,CH

P°PíP»PëPí 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.
PíCíPëC-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»PsPíC-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»CHPSPëC... PμPīC-P·PsPrC-PI, PīCḡPsPrPsPIPḡCḡCḡC,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 PSPsPIPsiPs PjP°PSC-P°PeP°P»CHPSPsiPs,
PrPμPīCḡPμCḡPëPIPSPsiPs P°P±Ps P·PjC-CëP°PSPsiPs PμPīC-P·PsPrCḡ
P»C-PeCḡPIP°PSPSCḡ PSPμPsP±C...C-PrPSPs PīCḡPsPrPsPIPḡCḡPIP°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»CHPSPsCḡ 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»CHPSPëC... PμPīC-P·PsPrC-PI
C,P° PīPsPīPμCḡPμPrPḡPμPSPSCḡ CḡPμC†PëPrPëPIC-PI P±C-PīPsP»CḡCḡPSPsiPs
CḡPsP·P»P°PrCž. P©PsPrPμPSPSCḡ PrPsP·Cḡ PIPëP·PSP°C±P°CḡC,CH PSP°
PīC-PrCḡC,P°PIC- PeP»C-PSC-C±PSPsiPs CḡC,P°C,CḡCḡCḡ PI PrC-P°PīP°P·PsPSC-
PIC-Pr 5 PrPs 20 PjPi PSP° PrPsP±Cḡ. P—P±C-P»CHCëPμPSPSCḡ
CḡPμPePsPjPμPSPPrPsPIP°PSPsC— PīPsC±P°C,PePsPIPsiC— PrPsP·Pë CḡP»C-Pr
PīCḡPsPIPsiPrPëC,Pë P· C-PSC,PμCḡPIP°P»P°PjPë PSPμ PjPμPSCëPμ 24 PīPsPrPëPS
P»PëCëPμ PīC-CḡP»Cḡ PeP»C-PSC-C±PSPsiPs 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»CHPePë 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 PīCḡPsPIPsiPrPëC,Pë PīPsCḡC,CḡPīPsPIPsi.*

*PμP°C†C-C''PSC,Pë P»C-C,PSCHPsPiPs PIC-PeCž. PμCḡPëP·PSP°C±PμPSPSCḡ PjPμPSCëPsC—
PīPsC±P°C,PePsPIPsiC— 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,PePsPIPsiC— 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»PëPIPsiCḡC,C- P·P°CḡC,PsCḡCḡPIP°PSPSCḡB»).*

*PμP°C†C-C''PSC,Pë P· PSPëCḡPePsPIPsiCḡ C,P°/P°P±Ps PīPμC±C-PSPePsPIPsiCḡ
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-PSPePsPIPsiC—
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·Π
PsP»P°PSP·P°ΠC-PSCρ. Π ΠΠΠΠΠΠPSPρPsPIP°PSPs Π·ΠC-ΠCΓPSCΨPIP°C, Π
ΠP»C-PSC-C±PSPΠΠ ΠΨPSC-C, PsCΨΠPSPi, C- Cρ CΨP°P·C- PSPΠPsP±C...C-ΠPSPsCΓC, C-
CΓP»C-Π Π·P±C-P»CΨCΠΠC, Π ΠPsP·Cρ PsP»P°PSP·P°ΠC-PSCρ (ΠPΠΠ. CΨPsP·ΠC-P»
B«P·P·P°C”ΠΨΠC-CΠ Π· C-PSCΠΠΠΠ Π»C-ΠP°CΨCΓCΨΠΠΠΠ Π·P°CΓPsP±P°ΠΠC, P°
C-PSCC- ΠΠΠΠ ΠP·P°C”ΠΨΠC-ΠB»).

ΠΠPSCCρ ΠΨC±P°C, ΠPsPICρ ΠPsP·Cρ ΠΨPΠPSP° ΠCΨΠP·PSP°C±P°C, Π
ΠP°C†C-C”PSC, P°Π Π· ΠPsΠP±C-PSP°C†C-C”C C,, P°ΠC, PsCΨC-Π (ΠC-PSPsC±P°
CΓC, P°C, CΨ, Π»C-C, PSC-Π ΠC-Π, ΠC-ΠCΓCρC, PSC-CΓC, CΨ Π·ΠΠC±ΠΠ ΠPs
ΠP°P»C-PSPSCΠ), CΠΠC- ΠΨPΠCρC, CΨ Π·PSPΠCρPIP°C, Π ΠΠC, P°P±PsP»C-P·Π
PsP»P°PSP·P°ΠC-PSCρ. ΠC-ΠΠΠC%ΠΠPSPSCΠ ΠPsP·ΠC, P°ΠΠΠ
ΠP°C†C-C”PSC, P°Π, CΠΠC%Π C†Π ΠΨΠP°P·P°PSPs, ΠΨC, CΨC-P±PSPs
Π·ΠC-ΠCΓPSCΨPIP°C, Π ΠPsCΓC, CρΠPsΠPs, Π· PsP±ΠCΨΠPΠPSC-CΓC, CΨ (ΠPΠΠ.
CΨPsP·ΠC-P»Π B«P·P·P°C”ΠΨΠC-CΠ Π· C-PSCΠΠΠΠ Π»C-ΠP°CΨCΓCΨΠΠΠΠ
Π·P°CΓPsP±P°ΠΠC, P° C-PSCC- ΠΠΠΠ ΠP·P°C”ΠΨΠC-ΠB» C, P°
B«P°CΨΠP°ΠPsP»PsΠC-C±PSC- ΠP»P°CΓC, ΠΠPsCΓC, C-B»).

P”C-C, Π.

Π—P°CΓC, PsCΓCρPIP°PSPSCΠ PsP»P°PSP·P°ΠC-PSCρ ΠC-C, CΠΠ C, P°
ΠC-ΠP»C-C, ΠP°Π (ΠC-ΠPsΠ ΠPs 18 CΨPsΠC-Π) PSPΠ
CΨΠΠΠPsΠPSPρPsPIP°PSPΠ Cρ Π·ΠBΨ™ CΠΠ·ΠCρ Π· PSPΠΠPsCΓC, P°C, PSC-CΓC, CΨ
ΠP°PSPC... Π· P±ΠΠ·ΠΠΠΠC, P° ΠC,, ΠΠΠC, ΠΠPSPsCΓC, C-. Π C...PsΠC-
ΠPsCΨPsC, ΠPsCΓC, CΨPsΠPsΠPΠC... ΠPsCΓP»C-ΠPΠΠPSCΨ Cρ ΠP°C†C-C”PSC, C-Π
ΠC-ΠP»C-C, ΠPsΠPsΠPs ΠC-ΠCρ ΠC-ΠP·PSP°C±P°P»PsCΓC Π·P±C-P»CΨCΠΠPSPSCΠ
ΠP°CΓΠC, C-C-P»P°, Π·ΠC-PSPC CΨC-ΠPSC-Π ΠCΨPsP»P°ΠC, ΠPSCρ C, P° Π»C-ΠC-ΠC-Π
ΠPsCΨC-ΠPSCΠPSPs Π· ΠPsCΨPsCΓP»ΠΠΠ (ΠPΠΠ. CΨPsP·ΠC-P»Π
B«ΠCΓPsP±P»ΠΠPsCΓC, C- Π·P°CΓC, PsCΓCρPIP°PSPSCΠB», B«ΠPsP±C-C±PSC-
CΨΠP°ΠC†C-C—B» C, P° B«P°CΨΠP°ΠPsP»PsΠC-C±PSC- ΠP»P°CΓC, ΠΠPsCΓC, C-B»).

ΠΠCΨΠΠΠP·CζPIP°PSPSCΠ.

ΠΠΠΠΠC, PsΠΠ. P”CρΠΠ ΠΨCΠΠCΨΠPSC- (> 10 % ΠΠΠΠΠP°ΠΠC-Π) BΨ”
C, P°C...C-ΠP°CΨΠC-Π, P°ΠΠC, P°C†C-Π / P°ΠCΨΠCΓΠΠPSC-CΓC, CΨ,
ΠPΠP·P°CΨC, CΨC-Π, CΨC-P·PSC- ΠΠCΓC, CΨP°ΠC-CΨP°ΠC-ΠPSC- CΓΠΠΠC, PsΠΠC, P°
Π·PSPΠΠPSPΠΠ CΨC-ΠΠPSC CΓΠC-ΠPsΠPsCΓC, C-, C%Π ΠP°CΨC-CΨC”C, CΨCΓC
ΠC-Π CΓΠΠP°C†C-C— ΠPs ΠPsΠΠ.

ΠPSCΠΠΠΠ Π·PSP°C±PSPΠΠ CρCΓΠP»P°ΠPSPΠPSPSCΠΠΠ ΠΠCΨΠΠΠPsP·CρPIP°PSPSCΠ
C” ΠΠΠ»C-CΨC-Π, CΓCρΠPsΠΠ, ΠPsΠP°, ΠPsPΠP»ΠΠC-CΓC, CΨ CΨPsP·ΠΠC, ΠCρ
PSPΠΠCΨPsP»ΠΠC, ΠC±PSPsΠPs Π·P»PsCΠΠC-CΓPSPsΠPs CΓΠPSPρCΨPsΠCρ,
ΠCΨΠΠPSC-C±ΠPSPSCΠ ΠPΠC...P°PSPSCΠ, P°CΓΠC-CΨP°C†C-Π,
P°CΨC, ΠCΨC-P°P»CΨPSP° ΠC-ΠΠCΨC, ΠPSP·C-Π P°P±Ps ΠC-ΠPsC, ΠPSP·C-Π,
CΓΠCΨC†ΠΠP° P°CΨΠC, ΠC-Π (< 2 % ΠΠΠΠΠP°ΠΠC-Π ΠΠCΨΠΠΠPsP·CρPIP°PSPSCΠ) C, P°

PeP°CḡPrC-PsPĩCfP»CHbPjPsPSP°P»CHbPSPëPNᵇ CẼPsPe. 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 PNᵇ PIPëPĩP°PrPePë PIPëP¶PëPIP°PSPSCḡ PĩC-CfP»Cḡ
PiPsCfC,CḡPsPiPs PĩPμCḡPμPrPsP·CfPIP°PSPSCḡ PĩC-CfP»Cḡ PĩCḡPëPNᵇPsPjCf

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

P>C-PeCáPIP°PSPSCḡ. PŸPĩPμC†PëC,,C-C‡PSPëPNᵇ P°PSC,PëPrPsC, PsP»P°PSP·P°PĩC-PSCf
PIC-PrCfCfC,PSC-PNᵇ. PkPμ CḡPμPePsPjPμPSPPrCfCḡ,CHbCfCḡ PĩCḡPμPĩP°CḡP°C,Pë, C%ᵇPs
CfPĩCḡPëC‡PëPSCḡCḡ,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 CẼP»CfPSPeP°, PĩCḡPëPNᵇPsPj
P°PeC,PëPIPsPIP°PSPsPiPs PICfPiC-P»P»Cḡ). P' CfP»Ps PIPëCḡPIP»PμPSPs, C%ᵇPs
CfCfPĩCfC,PSC-PNᵇ PĩCḡPëPNᵇPsPj P°PeC,PëPIPsPIP°PSPsPiPs PICfPiC-P»P»Cḡ P·PjPμPSC€CfC"
P±C-PsPrPsCfC,CfPĩPSC-CfC,CHb PsP»P°PSP·P°PĩC-PSCf PĩCḡPë PĩPμCḡPsCḡP°P»CHbPSPsPjCf
PĩCḡPëPNᵇPsPjC- 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-PNᵇ,
PIPeP»CḡC‡P°CḡC‡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-PSC€C-
CfPëPjPĩP°C,PsPjC-PjPμC,PëPePë P· PrC-C"ḡC, C...P°CḡP°PeC,PμCḡPSPsCḡ PrP»Cḡ P±PμC,P°-
P°PiPsPSC-CfC,C-PI, PsCfPeC-P»CHbPePë P±PμC,P°-CfC,PëPjCfP»CḡC†C-Cḡ PjPsP¶Pμ
PĩPsPiC-CḡC€PëC,Pë PĩCḡPsCḡPIPë PiC-PĩPsC,PsPSC-C—. P" P»Cḡ PIPëCḡPIP»PμPSPSCḡ
PjPsP¶P»PëPIPëC... P°CḡPëC,PjC-PNᵇ PSPμPsP±C...C-PrPSPëPNᵇ PjPsPSC-C,PsCḡPëPSPi
CfPμCḡC†PμPIPs-CfCfPrPëPSPSPsC— CfPëCfC,PμPjPë. P PμC,PμP»CHbPSPëPNᵇ
PjPμPrPëC‡PSPëPNᵇ PSP°PiP»CḡPr C,P° PjPsPSC-C,PsCḡPëPSPi PĩPsPIPëPSPμPS C,CḡPëPIP°C,Pë
PrPs PĩPsPIPSPsPiPs PsPrCfP¶P°PSPSCḡ PĩP°C†C-C"ḡPSC,P°.

PμPsP±C-C‡PSC- CḡPμP°PeC†C-C—.

PᵇPsCḡPsC,PePëPNᵇ PsPĩPëCf PĩCḡPsC,,C-P»Cḡ P±PμP·PĩPμPePë

P"PsCḡPsCfP»C-

PkP°PNᵇC‡P°CfC,C-CẼPëPjPë PĩPsP±C-C‡PSPëPjPë CḡPμP°PeC†C-CḡPjPë
(CfPĩPsCfC,PμCḡC-PiP°P»PëCfCḡ Cf ≥ 1 % PĩP°C†C-C"ḡPSC,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»CHbC€PμPSPSCḡ PjP°CfPë C,C-P»P°,
PμPsP·PëPSPsC,,C-P»C-Cḡ, PĩC-PrPIPëC%ᵇPμPSPSCḡ CḡC-PIPSC-PI
PĩCḡPsP»P°PeC,PëPSCf, C...PsP»PμCfC,PμCḡPsP»Cf (C...PsP»PμCfC,PμCḡPëPSCf),
PiP»CḡPePsP·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»CḡPePsP·CfCḡC-Cḡ, PĩC-PrPIPëC%ᵇPμPSPSCḡ P°PĩPμC,PëC,Cf,
P·P°PĩP°PjPsCḡPsC‡PμPSPSCḡ, P°PeP°C,PëP·C-Cḡ, PĩP°CḡPeC-PSCfPsPSC-P·Pj,

⁵ PŸPİPsCİC, PµCĤC-PİP°P»PsCİCİ Cı PİP°C†C-C”PSC, C-PI P·PSPsCĤPjP°P»CHbPSPëPj PİPsC†P°C, PePsPIPëPj CĤC-PIPSµPj PSP°C, C%oPµ (<1,69 PjPjPsP»CHb/P»), CİPePëPNë PİC-PrPIPëC%oCıPIP°PICİCİ PrPs PIPëCİPsPePsPiPs (≥ 2,26 PjPjPsP»CHb/P»). P”CıP¶Pµ C†P°CİC, Ps PİPsPIC-PrPsPjP»CİP»Pë PİCĤPs CĤC-P·PePµ PİC-PrPIPëC%oPµPSPSCİ CĤC-PIPSCİ C, CĤPëPİP»C-C†PµCĤPëPrC-PI PSP°C, C%oPµ P·PİPsC†P°C, PePsPIPpsPiPs CĤC-PIPSCİ (≥ 1,69 - < 2,26 PjPjPsP»CHb/P») PrPs PIPëCİPsPePsPiPs CĤC-PIPSCİ (≥ 2,26 PjPjPsP»CHb/P»).

⁶ PµC-Pr C†P°Cİ PeP»C-PSC-C†PSPëC... PrPsCİP»C-PrP¶PµPSCH C†P°CİC, PsC, P° PIPëPSPëPePSPµPSPSCİ PİP°CĤPeC-PSCİPsPSC-P·PjCı C- PrPëCİC, PsPSC-C— Cı PİP°C†C-C”PSC, C-PI, CİPeC- PsC, CĤPëPjCıCĤC, CHb P»C-PeCıPIP°PSPSCİ PsP»P°PSP·P°PİC-PSPsPj, P±CıP»P° PIPëC%oP°, PSC-P¶ Cı C...PsPrC- PrPsCİP»C-PrP¶PµPSCH PİP»P°C†Pµ±Ps, P°P»Pµ PeP»C-PSC-C†PSPs PSPµP·PSP°C†PSPs. PŞP°CİC, PsC, P° PIPëPSPëPePSPµPSPSCİ PİP°CĤPeC-PSCİPsPSC-P·PjCı, P°PeP°C, PëP·C-C— C- PrPëCİC, PsPSC-C— Cı PİP°C†C-C”PSC, C-PI, CİPeC- PsC, CĤPëPjCıCĤC, CHb P»C-PeCıPIP°PSPSCİ PsP»P°PSP·P°PİC-PSPsPj, P±CıP»P° PSPëP¶C†P°, PSC-P¶ PİCĤPë P·P°CİC, PsCİCıPIP°PSPSC- C, PëC, CĤPsPIP°PSPëC... PrPsP· PİP°P»PsPİPµCĤPëPrPsP»Cı. PŞPµCĤPµP· PIC-PrCİCıC, PSC-CİC, CHb C-PSC, PsCĤPjP°C†C-C— PİCĤPs PSP°CİPIPSC-CİC, CHb PI P°PSP°PjPSPµP·C- PİPsCİC, CĤPëC... P°P±Ps PİC-P·PSC-C... PµPeCİC, CĤP°PİC-CĤP°PjC-PrP°P»CHbPSPëC... CĤCıC...PsPIPëC... PİPsCĤCıCεPµPSCH PSPµ PjPsP¶PSP° PICİC, P°PSPsPIPëC, Pë, C%oPs PsP»P°PSP·P°PİC-PS PjPµPSCεPµ CİPİCĤPëC†PëPSCİC” PİC-P·PSCĤ PrPëCİPeC-PSPµP·C-CĤ C, P°/P°P±Ps C-PSCεC- PİC-P·PSC- PµPeCİC, CĤP°PİC-CĤP°PjC-PrP°P»CHbPSC- CİPëPSPrCĤPsPjPë.

⁷ Pj PIPëPİP°PrPeCı CĤC-P·PePsPiPs PİCĤPëPİPëPSPµPSPSCİ C, PµCĤP°PİC-C— PsP»P°PSP·P°PİC-PSPsPj PİPsPIC-PrPsPjP»CİP»Pë PİCĤPs PİPsCİC, CĤC- CİPëPjPİC, PsPjPë: PİC-PrPIPëC%oPµPSPµ PİPsC, PsPIPëPrC-P»PµPSPSCİ, P±PµP·CİPsPSPSCİ, C, CĤPµPjPsCĤ, P°P¶PëC, P°C†C-CĤ, PSCıPrPsC, Cı C- P±P»CĤPIP°PSPSCİ.

⁸ Pj C...PsPrC- PeP»C-PSC-C†PSPëC... PrPsCİP»C-PrP¶PµPSCH (PrPs 12 C, PëP¶PSC-PI) PIPëP·PSP°C†PµPSPs, C%oPs PePsPSC†PµPSC, CĤP°C†C-Cİ PİCĤPsP»P°PeC, PëPSCı Cı PİP»P°P·PjC- PeCĤPsPIC- PİPµCĤPµPIPëC%oCıPIP°P»P° PIPµCĤC...PSC-PNë P»C-PjC-C, PSPsCĤPjPë Cı 30 % PİP°C†C-C”PSC, C-PI, CİPeC- P·P°CİC, PsCİPsPICıPIP°P»Pë PsP»P°PSP·P°PİC-PS. Pj P±C-P»CHbCεPsCİC, C- PİP°C†C-C”PSC, C-PI C, P°PePµ PİC-PrPIPëC%oPµPSPSCİ P±CıP»Ps PİPsPjC-CĤPSPëPj C- P·P°P»PëCεP°P»PsCİCİ Cı PjPµP¶P°C... P·PSP°C†PµPSCH, Cı PrPIP° CĤP°P·Pë PSPëP¶C†PëC... PIC-Pr PIPµCĤC...PSCHbPsPiPs CĤC-PIPSCİ PSPsCĤPjPë.

⁹ PµPsP±C-C†PSC- CĤPµP°PeC†C-C— PIPëP·PSP°C†PµPSPs PI CĤPµP·CıP»CHbC, P°C, C- PeP»C-PSC-C†PSPëC... PrPsCİP»C-PrP¶PµPSCH PI C-PSC, PµPİCĤPsPIP°PSC-PNë P±P°P·C- PrP°PSPëC... PsP»P°PSP·P°PİC-PSCı.

¹⁰ PhC†C-PSPeP° PIPëPjC-CĤCİPSPëC... P·PSP°C†PµPSCH PIPëP·PSP°C†PµPSP° PI CĤPµP·CıP»CHbC, P°C, C- PeP»C-PSC-C†PSPëC... PrPsCİP»C-PrP¶PµPSCH PI C-PSC, PµPİCĤPsPIP°PSC-PNë P±P°P·C- PrP°PSPëC... PsP»P°PSP·P°PİC-PSCı.

¹¹ PµPsP±C-C†PSC- CĤPµP°PeC†C-C— PIPëP·PSP°C†PµPSPs P·C- CİPİPsPSC, P°PSPSPëC... PİPsCİC, PjP°CĤPePµC, PëPSPİPsPIPëC... P·PIC-C, C-PI P· PİPµCĤC-PsPrPëC†PSC-CİC, CĤ, C%oPs PICİC, P°PSPsPIP»PµPSP° PSP° PsCİPSPsPIC- C-PSC, PµPİCĤPsPIP°PSPsC— P±P°P·Pë PrP°PSPëC... PsP»P°PSP·P°PİC-PSCı.

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»C₇HPiC₇PsP°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»C₇HPiC₇PsP°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»C₇HPiC₇PsP°C,PsPj C†P_iPsC†C,P_μC₇C-PiP°P»PëC†C_μ

($\geq 10\%$) C, C₇H₁₂P₄P₂SC₇, C₇C₇C...C-C₇C, CH₃ C₇ C₇PsC, C-, P·P±C-P»CH₃C€P₄PSPSC₇ PjP°C₇Pë C, C-P»P°, PiC-PrPIPëC%₀₀P₄PSPSC₇ P°PiP₄C, PëC, C₇. P₇P°PePsP₇ PiPsPIC-PrPsPjP»C₇P»Pë PiC₇Ps PiPsC₇C₇C€P₄PSPSC₇ PjPsPIP»P₄PSPSC₇. P₄C-Pr C₇P°C₇ C, P₄C₇P°PiC-C— PsP»P°PSP·P°PiC-PSPsPj C₇ PePsPjP±C-PSP°C₇C-C— P·P»C-C, C-C”Pj P°P±Ps PrPëPIP°P»PiC₇PsP₄PeC₇PsPj C₇PiPsC₇C, P₄C₇C-PiP°P»PsC₇C₇B P·P±C-P»CH₃C€P₄PSPSC₇ PjP°C₇PëB C, C-P»P° $\geq 7\%$ B P₇P₇P₇B (C-PSPrP₄PeC₇C₇ PjP°C₇Pë C, C-P»P°) C₇ 17,4 % PiP°C₇C-C”PSC, C-PI PiC-Pr C₇P°C₇ C-PSC, P₄PSC₇PëPIPSPsC— C, P₄C₇P°PiC-C— (PrPs 6 C, PëP₇PSC-PI). P”PsPIPiPsC, C₇PëPIP°P»P₄ P»C-PeC₇PIP°PSPSC₇ PsP»P°PSP·P°PiC-PSPsPj (PrPs 12 C, PëP₇PSC-PI) PrP»C₇ PiPsPiP₄C₇P₄PrP₇P₄PSPSC₇ C₇P₄C₇PëPrPëPIC-PI C₇ PiP°C₇C-C”PSC, C-PI C-P·P±C-PiPsP»C₇C₇PSPëPjPë C₇PsP·P»P°PrP°PjPë P±C₇P»Ps PiPsPiB₇™ C₇P·P°PSPs P·PiC-PrPIPëC%₀₀P₄PSPSC₇Pj PjP°C₇Pë C, C-P»P° $\geq 7\%$ P₇P₇P₇ C₇ 39,9 % PiP°C₇C-C”PSC, C-PI.

P”C-C, Pë.

P₇P»P°PSP·P°PiC-PS PSP₄ PiPsPeP°P·P°PSPëP₇ PrP»C₇ P»C-PeC₇PIP°PSPSC₇ PrC-C, P₄P₇ C, P° PiC-PrP»C-C, PeC-PI (PIC-PePsPj PrPs 18 C₇PsPeC-PI). P₇P»C-PSC-C₇PSC- PrPsC₇P»C-PrP₇P₄PSPSC₇, C₇PeC- PiPsC₇C-PIPSC₇PIP°P»Pë P·P°C₇C, PsC₇C₇PIP°PSPSC₇ PsP»P°PSP·P°PiC-PSC₇ C₇ PiC-PrP»C-C, PeC-PI C, P° PrPsC₇PsC₇P»PëC..., PSP₄ PiC₇PsPIPsPrPëP»PëC₇CH₃.

P₇PëP₇C₇P₄ PIPeP°P·P°PSC- PiPsP±C-C₇PSC- C₇P₄P°PeC₇C-C—, C%₀₀Ps PIPëPSPëPeP°CH₃CH₃ C₇P°C₇C, C-C€P₄ 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-C₇PSC- C₇P₄P°PeC₇C-C—, C%₀₀Ps P±C₇P»Pë PIPëC₇PIP»P₄PSC- C, C-P»CH₃PePë PiC-Pr C₇P°C₇ PePsC₇PsC, PePsC, C₇PëPIP°P»PëC... PeP»C-PSC-C₇PSPëC... PrPsC₇P»C-PrP₇P₄PSCH₃ C₇ PiC-PrP»C-C, PeC-PI. P₇P»C-PSC-C₇PSPs P·PSP°C₇C₇%₀₀P₄ P·P±C-P»CH₃C€P₄PSPSC₇ PjP°C₇Pë C, C-P»P° ($\geq 7\%$) C₇P°C₇C, C-C€P₄ C₇PiPsC₇C, P₄C₇C-PiP°P»PsC₇CH₃ C₇ PiC-PrP»C-C, PeC-PI PiPsC₇C-PIPSC₇IPSPs P·PrPsC₇PsC₇P»PëPjPë. P₄C-Pr C₇P°C₇ PrPsPIPiPsC, C₇PëPIP°P»PsPiPs P»C-PeC₇PIP°PSPSC₇ (PSP₄ PjP₄PSC€P₄ 24 C, PëP₇PSC-PI) PeP»C-PSC-C₇PSPs P·PSP°C₇C₇%₀₀P₄ P·P±C-P»CH₃C€P₄PSPSC₇ PjP°C₇Pë C, C-P»P° P±C₇P»Ps PIPëC%₀₀PëPj, PSC-P₇ PiC-Pr C₇P°C₇ PePsC₇PsC, PePsC, C₇PëPIP°P»PsPiPs P»C-PeC₇PIP°PSPSC₇.

P₇P°C₇C, PsC, C₇ PiPsP±C-C₇PSPëC... C₇P₄P°PeC₇C-P₇, P·P°P·PSP°C₇P₄PSPëC... PSPëP₇C₇P₄, PIPëP·PSP°C₇P°CH₃CH₃ C, P°PePëPj C₇PëPSPsPj: PrC₇P₇P₄ C₇P°C₇C, Ps ($\geq 1/10$), C₇P°C₇C, Ps ($\geq 1/100 - < 1/10$).

P₄PsC₇C₇C€P₄PSPSC₇ PsP±PjC-PSC₇ C₇P₄C₇PsPIPëPS C, P° C₇PsP·P»P°PrPë C...P°C₇C₇C₇PIP°PSPSC₇.

P”C₇P₇P₄ C₇P°C₇C, Ps: P·P±C-P»CH₃C€P₄PSPSC₇ PjP°C₇Pë C, C-P»P°¹³, PiC-PrPIPëC%₀₀P₄PSPSC₇ C₇C-PIPSC₇ C, C₇PëPiP»C-C₇P₄C₇PëPrC-PI¹⁴, PiC-PrPIPëC%₀₀P₄PSPSC₇ P°PiP₄C, PëC, C₇.

P₇P°C₇C, Ps: PiC-PrPIPëC%₀₀P₄PSPSC₇ C₇C-PIPSC₇ C...PsP»P₄C₇C, P₄C₇PëPSC₇¹⁵.

P— P±PsPeC₇ PSP₄C₇PIPsPIPsC— C₇PëC₇C, P₄PjPë.

P”C₇P₇P₄ C₇P°C₇C, Ps: C₇P₄PrP°C₇C-C₇ (C₇ C, PsPjC₇ C₇PëC₇P»C- PiC-PiP₄C₇C₇PsPjPSC-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.

**PḡC-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°.