

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

C-P· C€P€CĤPsPeP€Pj CÍPíPµPeC,CĤPsPj C,,P°CĤPjP°PePsP»PsPiC-C‡PSPsC— PrC-C—, C%Ps
P·CíPjPsPIP»PµPSPs PIPiP»P€PIPsPj PSP° CĤC-P·PSC- CĤPµC†PµPíC,PsCĤP€P. P'P€CĤPIP»PµPSPs
P·PIBĤ™ CĤP·CíPIP°PSPSCĤ P· CÍPµCĤPsC,PsPSC-PSPsPIP€PjP€ CĤPµC†PµPíC,PsCĤP°PjP€ 5
PĶPŸ_{2Ph/2PŸ}, 5 PĶPŸ₃, 5 PĶPŸ₆, PrPsPíP°PjC-PSPsPIP€PjP€ CĤPµC†PµPíC,PsCĤP°PjP€ D₁, D₂, D₃, D₄,
D₅, PjCíCíP€P°CĤP€PSPsPIP€PjP€ CĤPµC†PµPíC,PsCĤP°PjP€ PĤ₁-PĤ₅,
P°PrCĤPµPSPµCĤPiC-C‡PSP€Pj CĤPµC†PµPíC,PsCĤPsPj a₁ C- PiC-CÍC,P°PjC-PSPsPIP€Pj PĶ₁-
CĤPµC†PµPíC,PsCĤPsPj. Pj C...PsPrC- PrPsCÍP»C-PrP¶PµPSCĤ PiPsPIPµPrC-PSPeP€
C,PIP°CĤP€PS, CĤPeP€Pj PIPiPsPrP€P»P€ PsP»P°PSP·P°PíC-PS, PIP€CĤPIP»PµPSPs
P°PSC,P°PiPsPSC-P·Pj PsP»P°PSP·P°PíC-PSCí CĤPe PrPs CÍPµCĤPsC,PsPSC-PSPsPIP€C...
CĤPµC†PµPíC,PsCĤC-PI 5PĶPŸ, C,P°Pe C- PrPs PrPsPíP°PjC-PSPsPIP€C... C-
C...PsP»C-PSPµCĤPiC-C‡PSP€C.... PhP»P°PSP·P°PíC-PS PjP°C" PIP€C%P€PN€ CĤC-PIPµPSCĤ
P·PIBĤ™ CĤP·CíPIP°PSPSCĤ P· CĤPµC†PµPíC,PsCĤP°PjP€ CÍPµCĤPsC,PsPSC-PSCí 5PĶPŸ₂,
PSC-P¶ P· CĤPµC†PµPíC,PsCĤP°PjP€ PrPsPíP°PjC-PSCí D₂, C,P° Cí PjPsPrPµP»CĤC... CĤPe *in*
vitro, C,P°Pe C- *in vivo*. P·P»PµPeC,CĤPsC,,C-P-C-PsP»PsPiC-C‡PSC- PrPsCÍP»C-PrP¶PµPSPSCĤ
PiPsPeP°P·P°P»P€, C%Ps PsP»P°PSP·P°PíC-PS CÍPµP»PµPeC,P€PIPsPs P·PjPµPSC€CíC"
P·P±CíPrP»P€PIC-CÍC,CH PjPµP·PsP»C-PjP±C-C‡PSP€C... (PĤ10)
PrPsPíP°PjC-PSPµCĤPiC-C‡PSP€C... PSPµPN€CĤPsPSC-PI, PIP€CĤPIP»CĤCĤC‡P€ PíCĤP€
C†CHPsPjCí PSPµP·PSP°C‡PSP€PN€ PIPiP»P€PI PSP° CÍC,CĤC-P°CĤPSC- (PĤ9) C€P»CĤC...P€,
PiPsPIBĤ™ CĤP·P°PSC- P· PjPsC,PsCĤPSPsCĤ C,,CíPSPeC†C-C"CH. PhP»P°PSP·P°PíC-PS
PiP°P»CHPjCíC" CíPjPsPIPSP€PN€ CĤPµC,,P»PµPeCÍ CíPSP€PePSPµPSPSCĤ, C%Ps
CÍPIC-PrC‡P€C,CH PíCĤPs PN€PsPiPs P°PSC,P€PíCíP€C...PsC,P€C‡PSCí P°PeC,P€PIPsC-CÍC,CH
PíCĤP€ PíCĤP€PN€PsPjC- PI PrPsP·P°C..., PjPµPSC€P€C..., PSC-P¶ PrPsP·P€, C%Ps
CÍPíCĤP€C‡P€PSCĤCĤC,CH PeP°C,P°P»PµPíCíC-CĤ, CĤPeP° C" PsP·PSP°PePsCĤ
PiPsP±C-C‡PSP€C... PjPsC,PsCĤPSP€C... PµC,,PµPeC,C-PI. PĶP° PIC-PrPjC-PSCí PIC-Pr
PrPµCĤPeP€C... C-PSC€P€C... P°PSC,P€PíCíP€C...PsC,P€C‡PSP€C... P»C-PeP°CĤCíCHPeP€C...
P·P°CíPsP±C-PI, PsP»P°PSP·P°PíC-PS PiPsCíP€P»CHC" CĤPµP°PeC†C-C— PSP°
PiPsPrCĤP°P·PSP€PeP€ PíCĤP€ PíCĤPsPIPµPrPµPSPSC- P°PSPeCíC-PsP»C-C,P€C‡PSPsPiPs
C,PµCíC,Cí.

PµCĤP€ PsPrPSPsCĤP°P·PsPiPsPjCí PíCĤP€PN€PsPjC- 10 PjPi PsP»P°PSP·P°PíC-PSCí Cí
C...PsPrC- PiPsP·P€C,CĤPsPSPSPs-PµPjC-CÍC-PN€PSPsC— C,PsPjPsPiCĤP°C,,C-C— (PµP·PŸ) P·
CíC‡P°CíC,CĤ PrPsP±CĤPsPiPsP»CHC†C-PI P·BĤ™ CĤCíPSPiP°PSPs, C%Ps
PsP»P°PSP·P°PíC-PS PjP°PI P±C-P»CHC€P€PN€ CĤC-PIPµPSCĤ P·PIBĤ™ CĤP·CíPIP°PSPSCĤ P·
CĤPµC†PµPíC,PsCĤP°PjP€ 5 PĶPŸ_{2Ph}, PSC-P¶ C-P· PrPsPíP°PjC-PSPsPIP€PjP€
CĤPµC†PµPíC,PsCĤP°PjP€ D₂. PĤCĤC-Pj C,PsPiPs, Cí CĤPµP·CíP»CHC,P°C,C- P°PSP°P»C-P·Cí
P·PsP±CĤP°P¶PµPSCĤ, PsC,CĤP€PjP°PSP€C... PíC-Pr C‡P°Cí PrPsCÍP»C-PrP¶PµPSCĤ
PíP°C†C-C"PS,C-PI, C...PIPsCĤP€C... PSP° C€P€P·PsC,,CĤPµPSC-CĤ, PjPµC,PsPrPsPj
PsPrPSPsC,,PsC,PsPSPSPsC— PµPjC-CÍC-PN€PSPsC— PePsPjPíBĤ™ CĤC,PµCĤPSPsC—
C,PsPjPsPiCĤP°C,,C-C— (PhPµP·PĤPŸ), P·BĤ™ CĤCíCíPíP°P»PsCíCĤ, C%Ps
PsP»P°PSP·P°PíC-PS-C‡CíC,P»P€PIC- PíP°C†C-C"PS,C,P€ PIP€CĤPIP»CĤP»P€ PjPµPSC€P€PN€
CĤC-PIPµPSCĤ P·PIBĤ™ CĤP·CíPIP°PSPSCĤ P·C- CÍC,CĤC-P°CĤPSP€PjP€ D₂-
CĤPµC†PµPíC,PsCĤP°PjP€, PSC-P¶ C-PSC€C- P°PSC,P€PíCíP€C...PsC,P€Pe- C,P°
CĤPµCíPíC-CĤP€PrPsPSC‡CíC,P»P€PIC- PíP°C†C-C"PS,C,P€, C%Ps PiPsCĤC-PIPsCĤPSPSPs P·
PeP»PsP·P°PíC-PSC‡CíC,P»P€PIP€PjP€ PíP°C†C-C"PS,C,P°PjP€.

PĤP»C-PSC-C‡PSP° PµC,,PµPeC,P€PIPsC-CÍC,CH.

PµC-Pr C‡P°Cí PrPiPsC... C-P· PrPiPsC... PíP»P°C†PµP±Ps-PePsPSC,CĤPsP»CHPsPIP°PSP€C... C-
PrPiPsC... C-P· C,CĤCHPsC... PiPsCĤC-PIPsCĤP»CHPSPs-PePsPSC,CĤPsP»CHPsPIP°PSP€C...
PrPsCíP»C-PrP¶PµPSCĤ P· CíC‡P°CíC,CĤ PiPsPSP°Pr 2900 C...PIPsCĤP€C... PSP°

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

PJ C...PsPrC- PjC-PḡPSP°CḡPsPrPSP€C... PīPsPrPIC-PN€PSP€C... CḡP»C-PīP€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°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·
PrPμPīCḡPμCḡP€PIPSP€PjP€ CḡP€PjPīC,PsPjP°PjP€ (16,6 PīCḡPSPeC,C-PI P·P° [C€PeP°P»PsCḡ](#)
[PḡPsPSC,PiPsPjPμCḡC--PḡCḡP±PμCḡPiP° PrP»Cḡ PsC‡C-PSPeP€ PrPμPīCḡPμCḡC-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°PīC-PSPsPj \(-6,0\)B PīPsCḡC-PIPSCḡPSPs P· C,P°PeP€Pj PīCḡP€](#)
[P»C-PeCḡPIP°PSPSC- PīP°P»PsPīPμCḡP€PrPsP»PsPj \(-3,1\).](#)

PJ PīP°C‡C-C''PSC,C-PI P· PjP°PSC-P°PeP°P»CḡPSP€PjP€ P°P±Ps P·PjC-C€P°PSP€PjP€
PμPīC-P·PsPrP°PjP€ PīCḡP€ P±C-PīPsP»CḡCḡPSPsPjCḡ CḡPsP·P»P°PrC- PsP»P°PSP·P°PīC-PS
PīCḡPsPrPμPjPsPSCḡC,CḡCḡPIP°PI PIP€CḡPsPeCḡ PμC,,PμPeC,P€PIPS-ClC,Cḡ Cḡ
P·PSP€PḡPμPSPSC- PjP°PSC-P°PeP°P»CḡPSP€C... CḡP€PjPīC,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°PīC-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° C‡P°CḡC,PeCḡ PīP°C‡C-C''PSC,C-PI C-P·
CḡP€PjPīC,PsPjP°C,P€C‡PSPsCḡ CḡC,P°PrC-C''Cḡ CḡPμPjC-CḡC-C—, PīPsC‡P€PSP°CḡC‡P€
P· PjP°PSC-C— C,P° PrPμPīCḡPμCḡC-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»CḡPīCḡPsP°C,PsPj PīCḡPsC,CḡPiPsPj
2 C,P€PḡPSC-PI P· PrPsPrP°PIP°PSPSCḡPj PsP»P°PSP·P°PīC-PSCḡ Cḡ PrPsP·C- 10 PjPi
PICḡC,P°PSPsPiP»PμPSPs P·PSP°C‡PSPμ P·PSP€PḡPμPSPSCḡ CḡP€PjPīC,PsPjC-PI PjP°PSC-C—
PīPsCḡC-PIPSCḡPSPs P· C,P°PeP€Pj PīCḡP€ PjPsPSPsC,PμCḡP°PīC-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€
CḡPμC‡P€PrP€PIC-PI PjP°PSC-P°PeP°P»CḡPSP€C... PμPīC-P·PsPrC-PI Cḡ PīP°C‡C-C''PSC,C-PI,
CḡPeC- PrPsCḡCḡPiP»P€ CḡPμPjC-CḡC-C— P·P° PrPsPīPsPjPsPiPsCḡ PsP»P°PSP·P°PīC-PSCḡ C-
PI PīPsPrP°P»CḡC€PsPjCḡ P±CḡP»P€ CḡP°PSPrPsPjC-P·PsPIP°PSC- Cḡ PīCḡCḡPīP€
PīCḡP€PN€PsPjCḡ PsP»P°PSP·P°PīC-PSCḡ P°P±Ps PīP»P°C‡PμP±Ps, PsP»P°PSP·P°PīC-PS
PīCḡPsPrPμPjPsPSCḡC,CḡCḡPIP°PI CḡC,P°C,P€CḡC,P€C‡PSPs P·PSP°C‡CḡC%Cḡ
PīPμCḡPμPIP°PīCḡ 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-PīPsP»CḡCḡPSPsPiPs
CḡPsP·P»P°PrCḡ. PḡP»P°PSP·P°PīC-PS C,P°PePsPḡ PīPsPeP°P·P°PI CḡC,P°C,P€CḡC,P€C‡PSPs
P·PSP°C‡CḡC%C- PīPμCḡPμPIP°PīP€ PSP°Pr PīP»P°C‡PμP±Ps PI CḡP°PjPeP°C...
P·P°PīPsP±C-PīP°PSPSCḡ CḡPμC‡P€PrP€PICḡ PjP°PSC-C— P°P±Ps CḡPμC‡P€PrP€PICḡ
PrPμPīCḡPμCḡC-C—.

PJ C...PsPrC- PSP°CḡC,CḡPīPSPsPiPs 12-PjC-CḡCḡC‡PSPsPiPs PrPsCḡP»C-PrPḡPμPSPSCḡ
PīCḡPsC,,C-P»P°PeC,P€PeP€ CḡPμC‡P€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 $\overline{\text{C}}$ (PIC-Pr 65 C $\overline{\text{H}}$ PsPeC-PI) PiPsC $\overline{\text{H}}$ C-PIPSC $\overline{\text{H}}$ PPSPs P·PjPsP»PsPrC $\overline{\text{E}}$ P $\overline{\text{E}}$ PjP $\overline{\text{E}}$ P·P° PIC-PePsPj PrPsP $\pm$ C $\overline{\text{H}}$ PsPIP $\overline{\text{S}}$ P»CHC†C $\overline{\text{H}}$ PjP $\overline{\text{E}}$, C $\overline{\text{I}}$ P μ C $\overline{\text{H}}$ P μ PrPSC-PN $\overline{\text{E}}$ PiP μ C $\overline{\text{H}}$ C-PsPr PSP°PiC-PIPIP $\overline{\text{E}}$ PIP μ PrP μ PSPSC $\overline{\text{H}}$ P $\pm$ CrPI C,C $\overline{\text{H}}$ P $\overline{\text{E}}$ PIP°P»C-C $\overline{\text{E}}$ P $\overline{\text{E}}$ PN $\overline{\text{E}}$ (51,8 PiC $\overline{\text{H}}$ PsC,P $\overline{\text{E}}$ B 33,8 PiPsPrP $\overline{\text{E}}$ PSP $\overline{\text{E}}$), PeP»C-C $\overline{\text{H}}$ P μ PSC $\overline{\text{I}}$ Cr PiP»P°P·PjC- PeC $\overline{\text{H}}$ PsPIC- P $\pm$ CrPI P·PSP $\overline{\text{E}}$ P $\overline{\text{H}}$ P μ PSP $\overline{\text{E}}$ PN $\overline{\text{E}}$ (17,5 PiC $\overline{\text{H}}$ PsC,P $\overline{\text{E}}$ 18,2 P»/PiPsPr). P $\overline{\text{A}}$ P°C $\overline{\text{H}}$ PjP°PePsPeC-PSP μ C,P $\overline{\text{E}}$ C†PSC-PePsP»P $\overline{\text{E}}$ PIP°PSPSC $\overline{\text{H}}$, C%Ps C $\overline{\text{I}}$ PiPsC $\overline{\text{I}}$ C,P μ C $\overline{\text{H}}$ C-PiP°P»P $\overline{\text{E}}$ C $\overline{\text{I}}$ C $\overline{\text{H}}$ 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 $\overline{\text{C}}$, P·PSP°C...PsPrC $\overline{\text{H}}$ C,C $\overline{\text{H}}$ C $\overline{\text{I}}$ C $\overline{\text{H}}$ Cr PjP μ P $\overline{\text{H}}$ P°C... PrC-P°PiP°P·PsPSC $\overline{\text{I}}$ PrP»C $\overline{\text{H}}$ PjPsP»PsPrC $\overline{\text{E}}$ P $\overline{\text{E}}$ C... PrPsP $\pm$ C $\overline{\text{H}}$ PsPIP $\overline{\text{S}}$ P»CHC†C-PI. PJ 44 C...PIPsC $\overline{\text{H}}$ P $\overline{\text{E}}$ C... PSP° C $\overline{\text{E}}$ P $\overline{\text{E}}$ P·PsC,,C $\overline{\text{H}}$ P μ PSC-C $\overline{\text{H}}$ PIC-PePsPj > 65 C $\overline{\text{H}}$ PsPeC-PI PrPsP·C $\overline{\text{I}}$ PIP°PSPSC $\overline{\text{H}}$ PIC-Pr 5 PrPs 20 PjPi/PrPsP $\pm$ Cr PSP μ P $\pm$ CrP»Ps PiPsPiB $\overline{\text{H}}$ TM C $\overline{\text{H}}$ P·P°PSPs P·P $\overline{\text{H}}$ PsPrPSP $\overline{\text{E}}$ Pj C...P°C $\overline{\text{H}}$ P°PeC,P μ C $\overline{\text{H}}$ PSP $\overline{\text{E}}$ Pj PiC $\overline{\text{H}}$ PsC,,C-P»P μ Pj PSP μ P $\pm$ P°P $\overline{\text{H}}$ P°PSP $\overline{\text{E}}$ C... C $\overline{\text{H}}$ PIP $\overline{\text{E}}$ C%.

PJ P¶C-PSPsPe PīPsCĤC-PIPSCĪPSPs P· C‡PsP»PsPIC-PeP°PjPë CĴPµCĤPµPrPSC-PNē
PīPµCĤC-PsPr PSP°PīC-PIIPēPIPµPrPµPSPSCĪ P±CfPI C,CĤPēPIP°P»C-CēPēPNē
(36,7 PīCĤPsC,Pë 32,3 PīPsPrPēPSPē) C,P° PeP»C-CĤPµPSCĴ Cŕ PīP»P°P·PjC- PeCĤPsPIC-
P±CfPI P·PSPēP¶PµPSPēPNē (18,9 PīCĤPsC,Pë 27,3 P»/PīPsPr). PhPrPSP°Pe
PsP»P°PSP·P°PīC-PS (5-20 PjPi) PīPsPeP°P·P°PI PīPsCĤC-PIPSCĪPSPēPNē
PīCĤPsC,,C-P»CH P±PµP·PīPµPePë CĪPe Cŕ P¶C-PSPsPe (N=467), C,P°Pe C- Cŕ
C‡PsP»PsPIC-PeC-PI (N=869).

PµP°C†C-C"°PSC,Pë P· PSPēCĤPePsPIPsCĤ PSPµPrPsCĴC,P°C,PSC-CĴC,CĤ.

PJ PīP°C†C-C"°PSC,C-PI P· PSPēCĤPePsPIPsCĤ PSPµPrPsCĴC,P°C,PSC-CĴC,CĤ (PeP»C-CĤPµPSCĴ
PeCĤPµP°C,PëPSC-PSCŕ < 10 PjP»/C...PI) PīPsCĤC-PIPSCĪPSPs P·C- P·PrPsCĤPsPIPēPjPë
PrPsP±CĤPsPIPsP»CHC†CĪPjPë, PSPµ P±CfP»Ps C-CĴC,PsC,PSPsC— CĤC-P·PSPēC†C- PI
PīPsPeP°P·PSPēPeP°C... CĴPµCĤPµPrPSCĤPsPiPs PīPµCĤC-PsPrCŕ
PSP°PīC-PIIPēPIPµPrPµPSPSCĪ (37,7 PīCĤPsC,Pë 32,4 PīPsPrPēPSPē) P°P±Ps
PeP»C-CĤPµPSCĴCŕ Cŕ PīP»P°P·PjC- PeCĤPsPIC- (21,2 PīCĤPsC,Pë 25,0 P»/PīPsPr).
P"PsCĴP»C-PrP¶PµPSPSCĪ PīPsPeP°P·P°P»Pë, C%°Ps PīCĤPēP±P»PēP·PSPs 57 %
PsP»P°PSP·P°PīC-PSCŕ P· CĤP°PrC-PsP°PeC,PëPIPsCĤ PjC-C,PePsCĤ
PīCĤPēCĴCŕC,PSC- PI CĴPµC†C-, PīPsP»PsPIPsPēPj C‡PēPSPsPj Cŕ PIPēPiP»CĪPrC-
PjPµC,P°P±PsP»C-C,C-PI.

PµP°C†C-C"°PSC,Pë P· PīPµC†C-PSPePsPIPsCĤ PSPµPrPsCĴC,P°C,PSC-CĴC,CĤ.

PJ PīCĤPsC†PµCĴC- PrPsCĴP»C-PrP¶PµPSPSCĪ PIPīP»PēPICŕ PīPµC†C-PSPePsPIPsC—
PSPµPrPsCĴC,P°C,PSPsCĴC,C- P· CŕC‡P°CĴC,CĤ 6 PīP°C†C-C"°PSC,C-PI P· PeP»C-PSC-C‡PSPs
P·PSP°C‡CŕC%°PēPj C†PēCĤPsP·PsPj (PeP»P°CĴ A (n = 5) C,P° B (n = 1) P·P° CēPeP°P»PsCĤ
PŞP°PNēP»PrP°-PµBĤ™ CĤ) P±CfP»Ps PIPēCĪPIP»PµPSPs PSPµP·PSP°C‡PSPēPNē PIPīP»PēPI PSP°
C,,P°CĤPjP°PePsPeC-PSPµC,PëPeCŕ PīPµCĤPsCĤP°P»CHPSPs PIPIPµPrPµPSPsPiPs
PsP»P°PSP·P°PīC-PSCŕ (PsPrPSPsCĤP°P·PsPIP° PrPsP·P° CĴC,P°PSPsPIPēC,CH 2,5-7,5 PjPi).
PµP°C†C-C"°PSC,Pë P· P»PµPiPePēPjPë C,P° PīPsPjC-CĤPSPēPjPë PīPsCĤCŕCēPµPSPSCĪPjPë
C,,CŕPSPeC†C-C— PīPµC†C-PSPePë PjP°P»Pë PrPµC%°Ps PīC-PrPIPēC%°PµPSPēPNē
CĴPēCĴC,PµPjPSPēPNē PeP»C-CĤPµPSCĴ C,P° P±C-P»CHCē CēPIPēPrPePēPNē PīPµCĤC-PsPr
PIPēPIPµPrPµPSPSCĪ PīPsCĤC-PIPSCĪPSPs P· PīP°C†C-C"°PSC,P°PjPë, Cŕ CĪPePēC... PSPµ
P±CfP»Ps PīPsCĤCŕCēPµPSPSCĪ C,,CŕPSPeC†C-C— PīPµC†C-PSPePë (n = 3). PŸPµCĤPµPr
PīP°C†C-C"°PSC,C-PI C-P· C†PēCĤPsP·PsPj P±CfP»Ps P±C-P»CHCēPµ PeCŕCĤC†C-PI (4/6; 67 %),
PSC-P¶ CĴPµCĤPµPr PīP°C†C-C"°PSC,C-PI P±PµP· PīPsCĤCŕCēPµPSPSCĪ C,,CŕPSPeC†C-C—
PīPµC†C-PSPePë (0/3; 0 %).

PµP°C†C-C"°PSC,Pë, CĪPeC- PīP°P»CĪC,CĤ.

P' PsCĴC-P±, CĪPeC- PSPµ PīP°P»CĪC,CĤ, PīPsCĤC-PIPSCĪPSPs P· PsCĴPsP±P°PjPë, CĪPeC-
PjP°CĤC,CĤ P·PIPēC‡PeCŕ PīP°P»PēC,Pë (C‡PsP»PsPIC-PePë C- P¶C-PSPePë),
CĴPµCĤPµPrPSC-PNē PīPµCĤC-PsPr PSP°PīC-PIIPēPIPµPrPµPSPSCĪ
PīPsPrPsPIP¶CŕPIP°PICĴCĪ (38,6 PīCĤPsC,Pë 30,4 PīPsPrPēPSPē), P° PeP»C-CĤPµPSCĴ Cŕ
PīP»P°P·PjC- PeCĤPsPIC- P±CfPI P·PSPēP¶PµPSPēPNē (18,6 PīCĤPsC,Pë 27,7 P»/PīPsPrPēPSCŕ).

PµP»C-CĤPµPSCĴ PsP»P°PSP·P°PīC-PSCŕ Cŕ PīP»P°P·PjC- PeCĤPsPIC- PSPēP¶C‡PēPNē PI
PsCĴC-P± P»C-C,PSCHPsPiPs PIC-PeCŕ PīPsCĤC-PIPSCĪPSPs P· PjPsP»PsPrPēPjPë, Cŕ
P¶C-PSPsPe PīPsCĤC-PIPSCĪPSPs P· C‡PsP»PsPIC-PeP°PjPë C,P° PI PsCĴC-P±, CĪPeC- PSPµ
PīP°P»CĪC,CĤ, PīPsCĤC-PIPSCĪPSPs P· C,PëPjPë, C...C,Ps PjP°C" P·PIPēC‡PeCŕ PīP°P»PēC,Pë.
PµCĤPsC,Pµ CĴC,CŕPīC-PSCH PIPīP»PēPICŕ PIC-PeCŕ, CĴC,P°C,C- P°P±Ps PīP°P»C-PSPSCĪ

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†PμCT̃C- 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»CH̃PSPsCÍCT̃C,PμPÑ PIC-PrPjC-PSPSPsCÍCT̃C,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-PSPSPsCÍCT̃C,C- PjC-P¶
P̃C-PrP»C-C,PeP°PjP̃ C- PrPsCT̃PsCÍP»P̃PjP̃ PIP̃P»CT̃C‡P°CT̃C,CT̃ PSP̃P¶C‡CÍ
CÍPμCT̃PμPrPSCĤ PjP°CÍCT̃ C,C-P»P° C,P° PjPμPSC€CÍ PeC-P»CH̃PeC-CT̃C,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 CÍP̃PsCÍCT̃C,PμCT̃C-PiP°PICÍCT̃C
CÍ P̃C-PrP»C-C,PeC-PI.

P̃P»C-PSC-C‡PSC- C...P°CT̃P°PeC,PμCT̃P̃CÍCT̃,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,P̃PIPS̃P̃PÑ PrP»CÍ P̃C-PrC,CT̃P̃PjP°PSPSCÍ
PrPsCÍCT̃PiPSCÍCT̃C,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...
CÍP̃PsCÍCT̃C,PμCT̃C-PiP°P»P°CÍCT̃C 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 CÍCT̃C,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—.

PuCTjPsC,PëPiPsPeP°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

PkClPeC-P»CHPePë PsP»P°PSP·P°PiC-PS PjPuC,P°P±PsP»C-P·CrC" C,CHClCII
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»PsClCII 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,CHClCII
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»CII PiCTjPëPNëPsPjCr
C,,P»CrPsPeClP°PjC-PSCr PSP° 54 % ClPuCTjPuPr P¶C-PSPsPe, ClPeC- PSPu PiP°P»CII C,CH,
C,P° PSP° 77 % ClPuCTjPuPr C±PsP»PsPIC-PeC-PI, ClPeC- PiP°P»CII C,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-CII-C±P°ClB» (AUC) PsP»P°PSP·P°PiC-PSCrB
ClC,P°PSPsPIPeC,CH 52 % C,P° 108 % PIC-PrPiPsPIC-PrPSPs. P" P»CII
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

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-

PIPIPsCTjPsP±P° PμP°CTjPeC-PSCfPsPSP°. PκPμ CTjPμPePsPjPμPSPPrPsPIP°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
PjPi/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.

PkPμPNëCḡPsP»PμPiC,PëC±PSPëPNë P·P»PsCÍPeC-CÍPSPëPNë CÍPëPSPrCḡPsPj.
PkPμPNëCḡPsP»PμPiC,PëC±PSPëPNë P·P»PsCÍPeC-CÍPSPëPNë CÍPëPSPrCḡPsPj (PkP—PŸ) bḡ“
C†Pμ PiPsC,PμPSC†C-PNëPSPs P»PμC,P°P»CHbPSPëPNë
CÍPëPjPiC,PsPjPsPePsPjPiP»PμPeCÍ, PsPiPëCÍP°PSPëPNë Cr P·PIbḡ™ CÍP·PeCr P·
P°PSC,PëPiCÍPëC...PsC,PëC±PSPëPjPë PiCḡPμPiP°CḡP°C,P°PjPë. P C-PrPePs
PiPsPIC-PrPsPjP»CÍP»PsCÍCÍ PiCḡPs PiPëPiP°PrPePë PkP—PŸ, PiPsPIbḡ™ CÍP·P°PSC-
C·P·P·P°CÍC,PsCÍCrPiP°PSPSCÍPj PsP»P°PSP·P°PiC-PSCf. PḡP»C-PSC-C±PSPëPjPë
PiCḡPsCÍPIP°PjPë PkP—PŸ C” PiC-PiPμCḡPiC-CḡPμPeCÍC-CÍ, Pjḡḡ™ CÍP·PsPiP°
CḡPëPiC-PrPSC-CÍC,CH, PIC,CḡP°C,P° CÍPIC-PrPsPjPsCÍC,C- C,P° CÍPëPjPiC,PsPjPë
CÍPμCḡC†PμPiPsC— PSPμCÍC,P°P±C-P»CHbPSPsCÍC,C- (PSPμCḡPμPiCrP»CÍCḡPSC-
PiCrP»CHbCÍ P°P±Ps P·PjC-PSP° P°CḡC,PμCḡC-P°P»CHbPSPsPiPs C,PëCÍPeCr,
C,P°C...C-PeP°CḡPrC-CÍ, PiC-PrPiPëC%PμPSPμ PiPsC,PsPiPëPrC-P»PμPSPSCÍ C,P°
CÍPμCḡC†PμPiP° P°CḡPëC,PjC-CÍ). P”PsPrP°C,PePsPIC- PsP·PSP°PePë PjPsP¶CrC,CH
PiPeP»CḡC†P°C,Pë PiC-PrPiPëC%PμPSPëPNë CḡC-PIPμPSCḡ
PeCḡPμP°C,PëPSC-PSC,,PsCÍC,,PsPeC-PSP°P·Pë, PjC-PsPiP»PsP±C-PSCfCḡC-Cḡ
(CḡP°P±PrPsPjC-PsP»C-P·) C,P° PiPsCÍC,CḡCr PSPëCḡPePsPICf
PSPμPrPsCÍC,P°C,PSC-CÍC,CH. PḡP»C-PSC-C±PSPëPNë PiCḡPsCÍPI PkP—PŸ P°P±Ps
PSP°CÍPIPSC-CÍC,CH PiC-PiPμCḡC,PμCḡPjC-C— P±PμP· PeP»C-PSC-C±PSPsPiPs
PiCḡPsCÍPICf PkP—PŸ PiPsC,CḡPμP±CrC” PSPμPiP°PNëPSPsC— PIC-PrPjC-PSPë
PICfC-C... P°PSC,PëPiCÍPëC...PsC,PëC±PSPëC... P·P°CÍPsP±C-PI, PiPeP»CḡC†P°CḡC†Pë
PsP»P°PSP·P°PiC-PS.

P”C-PiPμCḡPiP»C-PePμPjC-CÍ C- C†CzPeCḡPsPiPëPNë PrC-P°P±PμC,.

PkPμC†P°CÍC,Ps PiPsPIC-PrPsPjP»CÍP»Pë PiCḡPs PiC-PiPμCḡPiP»C-PePμPjC-Cḡ
C,P°/P°P±Ps CḡPsP·PiPëC,PsPe C†CrPeCḡPsPiPsPiPs PrC-P°P±PμC,Cr P°P±Ps
PiPsPIC-CḡC€PμPSPSCÍ PiPμCḡPμP±C-PiCr PiP¶Pμ C-CÍPSCfCḡC†PsPiPs,
P°CÍPsC†C-PNëPsPiP°PSPsPiPs P· PePμC,PsP°C†PëPrPsP·PsPj P°P±Ps PrC-P°P±PμC,PëC±PSPsCḡ
PePsPjPsCḡ, P° C,P°PePsP¶ PiCḡPs P»PμC,P°P»CHbPSC- PiPëPiP°PrPePë. P†PSPsPrC-
PiPsPIC-PrPsPjP»CÍP»PsCÍCÍ PiCḡPs PiPsPiPμCḡPμPrPSC” PiC-PrPiPëC%PμPSPSCÍ PjP°CÍPë
C,C-P»P°, C%Ps PjPsPiP»Ps P±CrC,Pë C,,P°PeC,PsCḡPsPj CḡPëP·PëPeCr.

P PμPePsPjPμPSPrPsPiP°PSPs PiCḡPsPiPsPrPëC,Pë PIC-PrPiPsPIC-PrPSPëPNë
PeP»C-PSC-C±PSPëPNë PjPsPSC-C,PsCḡPëPSPi PiP°C†C-C”PSC,C-PI C·P·
C†CrPeCḡPsPiPëPj PrC-P°P±PμC,PsPj C,P° PiP°C†C-C”PSC,C-PI P· C,,P°PeC,PsCḡP°PjPë
CḡPëP·PëPeCr CḡPsP·PiPëC,PeCr C†CrPeCḡPsPiPsPiPs PrC-P°P±PμC,Cr, P·PsPeCḡPμPjP°
PiPëPjC-CḡCḡPiP°C,Pë CḡC-PIPμPSCḡ PiP»CḡPePsP·Pë PI PeCḡPsPIC- PSP° PiPsC†P°C,PeCr
P»C-PeCrPiP°PSPSCÍ, C†PμCḡPμP· 12 C,PëP¶PSC-PI, P° C,P°PePsP¶ C%PsCḡC-C±PSPs Cr
PiPsPrP°P»CHbC€PsPjCr. PμP°C†C-C”PSC,Pë, CÍPeC- PsC,CḡPëPjCrCḡC,CH
P»C-PeCrPiP°PSPSCÍ P°PSC,PëPiCÍPëC...PsC,PëC±PSPëPjPë P·P°CÍPsP±P°PjPë,
PiPeP»CḡC†P°CḡC†Pë PsP»P°PSP·P°PiC-PS, PiPsPiPëPSPSC- P±CrC,Pë PiC-Pr PSP°PiP»CÍPrPsPj
CÍC,PsCÍPsPiPSPs PiCḡPsCÍPIC-PI PsP·PSP°Pe C,P° CÍPëPjPiC,PsPjC-PI
PiC-PiPμCḡPiP»C-PePμPjC-C— (C,P°PePëC... CÍPe PiPsP»C-PrPëPiCÍC-CÍ, PiPsP»C-CrCḡC-CÍ,
PiPsP»C-C,,P°PiC-CÍ C,P° CÍP»P°P±PeC-CÍC,CH). PμP°C†C-C”PSC,C-PI P· C†CrPeCḡPsPiPëPj
PrC-P°P±PμC,PsPj C,P° PiP°C†C-C”PSC,C-PI P· C,,P°PeC,PsCḡP°PjPë CḡPëP·PëPeCr
CḡPsP·PiPëC,PeCr PrC-P°P±PμC,Cr PSPμPsP±C...C-PrPSPs CḡPμPiCrP»CÍCḡPSPs
PePsPSC,CḡPsP»CḡPiP°C,Pë C%PsPrPs PiPsPiC-CḡC€PμPSPSCÍ CḡC-PIPSCÍ

PePsPSC, C₇H₅PsP»C₇H PiP»C₇HPePsP·Pë. PŸP»C-Pr C₇H₅P_μPiC₇P»C₇HC₇PSPs
PePsPSC, C₇H₅PsP»C₇HPIP° C, Pë PjP° C₇Cr C, 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» Cr
PiPsPrP°P»CHC€PsPjCr.

P—PjC-PSPë C₇H₅C-PIPSCL P»C-PiC-PrC-PI. P₇KP_μP±P°P₇||P°PSC- P·PjC-PSPë C₇H₅C-PIPSCL
P»C-PiC-PrC-PI C₇PiPsC₇Cr, P_μC₇H₅C-PiP°P»PëC₇CL C₇ PiP°C₇C-C°PSC, C-PI, C₇IPeC-
PsC, C₇H₅PëPjCrPIP°P»Pë PsP»P°PSP·P°PiC-PS Cr PiP»P°C₇P_μP±Ps-
PePsPSC, C₇H₅PsP»CH₅PsPIP°PSPëC... PeP»C-PSC-C₇PSPëC... PIPëPiC₇H₅PsP±C₇PIP°PSPSC₇CLC....
P—PjC-PSPë C₇H₅C-PIPSCL P»C-PiC-PrC-PI C₇P»C-Pr PePsC₇H₅P_μPiC₇PIP° C, Pë PSP°P»P_μP₇||PSPëPj
C₇PëPSPsPj Cr PiP°C₇C-C°PSC, C-PI C-P· PrPëC₇P»C-PiC-PrP_μPjC-C°C₇ C, P° Cr
PiP°C₇C-C°PSC, C-PI C-P· C, P°PeC, PsC₇H₅P°PjPë C₇H₅PëP·PëPeC₇ C₇H₅PsP·PIPëC, PeC₇
PiPsC₇CrC€P_μPSCH₅ PsP±PjC-PSC₇ P»C-PiC-PrC-PI. P_μP°C₇C-C°PSC, P°Pj, C₇IPeC-
PsC, C₇H₅PëPjCrC₇C, 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 Cr
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 Cr PiPsPrP°P»CHC€PsPjCr.

P₇hPSC, PëC...PsP»C-PSP_μC₇H₅PiC-C₇PSP° P°PeC, PëPIPSCL-C₇Cr, CH₅. Pj C...PsPrC-
PeP»C-PSC-C₇PSPëC... PrPsC₇P»C-PrP₇||P_μPSCH₅ PIPëC₇PIP»P_μPSPs PSPëP·CH₅PeC₇
C₇P°C₇Cr, PsC, Cr P°PSC, PëC...PsP»C-PSP_μC₇H₅PiC-C₇PSPëC... C₇PIPëC%. P₇hPrPSP°Pe
C₇P_μC₇H₅P_μP· PsP±PjP_μP₇||P_μPSC-C₇Cr, CH₅ PeP»C-PSC-C₇PSPsPiPs PrPsC₇PIP-PrCr
P·P°C₇Cr, PsC₇CrPIP°PSPSC₇ PsP»P°PSP·P°PiC-PSC₇ PiP°C₇C-C°PSC, P°Pj C-P·
C₇CrPiC₇Cr, PSC-PjPë P·P°C...PIP₇C₇H₅PIP°PSPSC₇PjPë C₇P»C-Pr P±C₇Cr, Pë
PsP±P_μC₇H₅P_μP₇||PSPëPjPë PiC₇H₅Pë PiC₇H₅PëP·PSP°C₇P_μPSPSC- PiC₇H₅P_μPiP°C₇P° C, Cr
PiP°C₇C-C°PSC, P°Pj C-P· PiC-PiP_μC₇H₅C, C₇H₅PsC, C-C°C₇ PiC₇H₅PsC₇Cr, P°C, Pë,
PiP°C₇P°P»C-C, PëC₇PSPsC₇ PePëC€PePsPIP₇C₇ PSP_μPiC₇PsC...C-PrPSC-C₇Cr, C₇
P°P±Ps PiPsPrC-P±PSPëPjPë C₇Cr, P°PSP°PjPë.

P_μPsPeP°P·PSPëPePë PiP_μC₇C-PSPePsPIPsC— C, C₇PSPeC₇C-C—. P_μC₇H₅Pë
P·P°C₇Cr, PsC₇CrPIP°PSPSC- PsP»P°PSP·P°PiC-PSC₇ C₇P°C₇Cr, Ps
C₇PiPsC₇Cr, P_μC₇H₅C-PiP°P»PëC₇CL C, C₇H₅P°PSP·PëC, PsC₇H₅PSC-
P°C₇PëPjPiC, PsPjP° C, PëC₇PSC- PiC-PrP_μPsPjPë C₇H₅C-PIPSCL PiP_μC₇C-PSPePsPIPëC...
C, C₇H₅P°PSC₇P°PjC-PSP°P· P₇hP»P₇PŸ C, P° P₇hC₇P₇PŸ, 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-PIPSCL P₇hP»P₇PŸ C, P°/C₇Pë P₇hP»P₇PŸ, PsP·PSP°PeP°PjPë
C, P° C₇PëPjPiC, PsPjP°PjPë PiPsC₇CrC€P_μPSPSC₇ C, C₇PsPeC₇C-C— PiP_μC₇C-PSPePë,
PiP°C₇C-C°PSC, P°Pj C-P· PiPsPiP_μC₇H₅P_μPrPSCH₅Ps C-C₇PSC₇CrC₇C₇PëPjPë
C₇Cr, P°PSP°PjPë, PiPsPiB₇™ C₇IP·P°PSPëPjPë P· PsP±PjP_μP₇||P_μPSPëPj
C, 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-C₇Cr, C₇H. P_μC₇H₅Pë
PIPëC₇PIP»P_μPSPSC- PiP_μPiP° C, PëC, Cr (PIPeP»C₇H₅C₇P°C₇C₇Pë
PiP_μPiP° C, PsC₇P_μP»C₇H»C₇HC₇PSP_μ, C...PsP»P_μC₇Cr, 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.

$PkP\mu PN\epsilon C, C\tilde{H}PsPiP\mu PSC-C\tilde{U}$. $PhP \gg P^{\circ}PSP \cdot P^{\circ}PiC-PS$ $PSP\mu PsP \pm C \dots C-PrPSPs$ $PiC\tilde{H}P\ddot{e}P \cdot PSP^{\circ}C \ddagger P^{\circ}C, P\ddot{e}$
 $P \cdot PsP \pm P\mu C\tilde{H}P\mu P\parallel PSC-C\tilde{I}C, C\tilde{H}$ $PiC\tilde{H}P\ddot{e} PSP\ddot{e}P \cdot CHPePsPjCr$ $C\tilde{H}C-PIPSC-$ $P \gg P\mu PN\epsilon PePsC \ddagger P\ddot{e}C, C-PI$
 $C, P^{\circ}/P^{\circ}P \pm Ps$ $PSP\mu PN\epsilon C, C\tilde{H}PsC, C-P \gg C-PI$ $P \cdot P \pm CrPrCH\tilde{C}-C\tilde{U}PePsC-$ $PiC\tilde{H}P\ddot{e}C \ddagger P\ddot{e}PSP\ddot{e}$
 $PiP^{\circ}C \ddagger C-C''PSC, P^{\circ}Pj, C\tilde{U}PeC-$ $PsC, C\tilde{H}P\ddot{e}PjCrC\tilde{H}C, CH$ $P \gg C-PeCrPIP^{\circ}PSPSC\tilde{U}$
 $PiC\tilde{H}P\mu PiP^{\circ}C\tilde{H}P^{\circ}C, P^{\circ}PjP\ddot{e}, C\%Ps$ $PjPsP\parallel CrC, CH$ $ClPiC\tilde{H}P\ddot{e}C \ddagger P\ddot{e}PSP\ddot{e}C, P\ddot{e}$
 $PSP\mu PN\epsilon C, C\tilde{H}PsPiP\mu PSC-C\tilde{H}, PiP^{\circ}C \ddagger C-C''PSC, P^{\circ}Pj, C\tilde{U}PeC-$ $PjP^{\circ}C\tilde{H}C, CH$ PI $P^{\circ}PSP^{\circ}PjPSP\mu P \cdot C-$
 $PjP\mu PrP\ddot{e}PeP^{\circ}PjP\mu PSC, PsP \cdot PSP\mu$ $PiC\tilde{H}P\ddot{e}PiPSC-C \ddagger P\mu PSPSC\tilde{U}/C, PsPeClPiP\ddot{e}C \ddagger PSP\mu$
 $CrC\tilde{H}P^{\circ}P\parallel P\mu PSPSC\tilde{U}$ $PeC-C\tilde{I}C, PePsPIPsPiPs$ $PjPsP \cdot PeCr, PiP^{\circ}C \ddagger C-C''PSC, P^{\circ}Pj$ $C-P \cdot$
 $PiC\tilde{H}P\ddot{e}PiPSC-C \ddagger P\mu PSPSC\tilde{U}Pj$ $PeC-C\tilde{I}C, PePsPIPsPiPs$ $PjPsP \cdot PeCr, ClPiC\tilde{H}P\ddot{e}C \ddagger P\ddot{e}PSP\mu PSP\ddot{e}Pj$
 $ClCrPiCrC, PSC-PjP\ddot{e}$ $P \cdot P^{\circ}C \dots PIPsC\tilde{H}PIP^{\circ}PSPSC\tilde{U}PjP\ddot{e}, PsPiC\tilde{H}PsPjC-PSP\mu PSPSC\tilde{U}Pj$ $P^{\circ}P \pm Ps$
 $C \dots C-PjC-PsC, P\mu C\tilde{H}P^{\circ}PiC-C''C\tilde{H}, C, P^{\circ}B$ $PiP^{\circ}C \ddagger C-C''PSC, P^{\circ}Pj$ $C-P \cdot$
 $PiC-PiP\mu C\tilde{H}P\mu PsP \cdot P\ddot{e}PSPsC, C-P \gg C-C''C\tilde{H}$ C, P° $PjC-C''P \gg PsPiC\tilde{H}PsP \gg C-C, P\mu C\tilde{H}P^{\circ}C, P\ddot{e}PIPSP\ddot{e}Pj$
 $P \cdot P^{\circ}C \dots PIPsC\tilde{H}PIP^{\circ}PSPSC\tilde{U}Pj$. $PkP\mu PN\epsilon C, C\tilde{H}PsPiP\mu PSC-C\tilde{U}$ C'' $C \ddagger P^{\circ}ClC, P\ddot{e}Pj$ $PiPsP \pm C-C \ddagger PSP\ddot{e}Pj$
 $P\mu C, P\mu PeC, PsPj$ $PiC\tilde{H}P\ddot{e}$ $ClPiC-P \gg CHPePsPjCr$ $P \cdot P^{\circ}ClC, PsClCrPIP^{\circ}PSPSC-$
 $PIP^{\circ}P \gg CHPePiC\tilde{H}PsP^{\circ}C, Cr$ C, P° $PsP \gg P^{\circ}PSP \cdot P^{\circ}PiC-PSCr$ $(PrP\ddot{e}PI. C\tilde{H}PsP \cdot PrC-P \gg B \ll P\mu PsP \pm C-C \ddagger PSC-$
 $C\tilde{H}P\mu P^{\circ}PeC \ddagger C-C-B \gg)$.

$P\mu C\tilde{H}P\ddot{e}PiP\ddot{e}PSP\mu PSPSC\tilde{U}$ $C, P\mu C\tilde{H}P^{\circ}PiC-C-$. $P\mu C\tilde{H}P\ddot{e}$ $C\tilde{H}C-P \cdot PePsPjCr$
 $PiC\tilde{H}P\ddot{e}PiP\ddot{e}PSP\mu PSPSC-$ $C, P\mu C\tilde{H}P^{\circ}PiC-C-$ $C\tilde{H}C-PrPePs$ $(\geq 0,01 \% C, P^{\circ} 0,1 \%)$
 $PiPsPIC-PrPsPjP \gg C\tilde{U}P \gg P\ddot{e}$ $PiC\tilde{H}Ps$ $PiPsClC, C\tilde{H}C-$ $ClP\ddot{e}PjPiC, PsPjP\ddot{e}, P \cdot PsPeC\tilde{H}P\mu PjP^{\circ}$ $PiC\tilde{H}Ps$
 $PSP^{\circ}PrPjC-C\tilde{H}PSP\mu$ $PiPsC, PsPIP\ddot{e}PrC-P \gg P\mu PSPSC\tilde{U}$, $P \pm P\mu \cdot ClPsPSPSC\tilde{U}$, $C, C\tilde{H}P\mu PjPsC\tilde{H}$,
 $C\tilde{H}PsP \cdot PrC\tilde{H}P^{\circ}C, PsPIP^{\circ}PSC-C\tilde{I}C, CH$, $PSCrPrPsC, Cr$ $P^{\circ}P \pm Ps$ $P \pm P \gg CHPIP^{\circ}PSPSC\tilde{U}$.

$QT-C-PSC, P\mu C\tilde{H}PIP^{\circ}P \gg$. Pj $C \dots PsPrC-$ $PeP \gg C-PSC-C \ddagger PSP\ddot{e}C \dots$ $PrPsClP \gg C-PrP\parallel P\mu PSCH$
 $PeP \gg C-PSC-C \ddagger PSPs$ $P \cdot PSP^{\circ}C \ddagger CrC\%P\mu$ $PiPsPrPsPIP\parallel P\mu PSPSC\tilde{U}$ $C-PSC, P\mu C\tilde{H}PIP^{\circ}P \gg Cr$ QTc
 $(PePsC\tilde{H}P\mu PeC \ddagger C-C\tilde{U}$ QT $P \cdot P^{\circ}$ $P \gg C\tilde{H}C-PrP\mu C\tilde{H}C-PePsPj$ $(QTcF) \geq 500$ $PjC-P \gg C-C\tilde{I}P\mu PeCrPSPr$
 $(PjClP\mu Pe)$ Cr $P \pm CrPrCH\tilde{C}-C\tilde{U}PeP\ddot{e}PN\epsilon$ $C \ddagger P^{\circ}Cl$ $PiC-C\tilde{I}P \gg C\tilde{U}$ $PiPsC \ddagger P^{\circ}C, PeCr$ $C, P\mu C\tilde{H}P^{\circ}PiC-C-$ Cr
 $PiP^{\circ}C \ddagger C-C''PSC, C-PI$ $C-P \cdot$ $PiPsC \ddagger P^{\circ}C, PePsPIP\ddot{e}Pj$ $QTcF < 500$ $PjClP\mu Pe$ $PrPs$ $PiPsC \ddagger P^{\circ}C, PeCr$
 $C, P\mu C\tilde{H}P^{\circ}PiC-C-$) Cr $PiP^{\circ}C \ddagger C-C''PSC, C-PI$, $C\tilde{U}PeC-$ $P \gg C-PeCrPIP^{\circ}P \gg P\ddot{e}ClC\tilde{U}$
 $PsP \gg P^{\circ}PSP \cdot P^{\circ}PiC-PSPsPj$, $ClPiPsClC, P\mu C\tilde{H}C-PiP^{\circ}P \gg PsClC\tilde{U}$ $PSP\mu C \ddagger P^{\circ}ClC, Ps$ $(PIC-Pr 0,1 \%$
 $PrPs 1 \%)$. $P\mu PsC\tilde{H}C-PIPSC\tilde{U}PSPs$ $P \cdot PiP \gg P^{\circ}C \ddagger P\mu P \pm Ps$ $PSP\mu$ $PIP\ddot{e}C\tilde{U}PIP \gg P\mu PSPs$ $P \cdot PSP^{\circ}C \ddagger PSPsC-$
 $C\tilde{H}C-P \cdot PSP\ddot{e}C \ddagger C-$ Cr $C \ddagger P^{\circ}ClC, PsC, C-$ $P^{\circ}ClPsC \ddagger C-PN\epsilon PsPIP^{\circ}PSP\ddot{e}C \dots$ $PeP^{\circ}C\tilde{H}PrC-P^{\circ}P \gg CHPeSP\ddot{e}C \dots$
 $PiPsP \pm C-C \ddagger PSP\ddot{e}C \dots$ $C\tilde{H}P\mu P^{\circ}PeC \ddagger C-PN\epsilon$. $PhPrPSP^{\circ}Pe$, $C\tilde{U}Pe$ $C-$ $PiC\tilde{H}P\ddot{e}$ $P \gg C-PeCrPIP^{\circ}PSPSC-$
 $C-PSC\epsilon P\ddot{e}PjP\ddot{e}$ $P^{\circ}PSC, P\ddot{e}PiClP\ddot{e}C \dots$ $PsC, P\ddot{e}C \ddagger PSP\ddot{e}PjP\ddot{e}$ $P \cdot P^{\circ}ClPsP \pm P^{\circ}PjP\ddot{e}$, $PiC\tilde{H}P\ddot{e}P \cdot PSP^{\circ}C \ddagger P^{\circ}C, P\ddot{e}$
 $PsP \gg P^{\circ}PSP \cdot P^{\circ}PiC-PS$ Cr $PePsPjP \pm C-PSP^{\circ}C \ddagger C-C-$ $P \cdot$ $PiC\tilde{H}P\mu PiP^{\circ}C\tilde{H}P^{\circ}C, P^{\circ}PjP\ddot{e}, C\tilde{U}PeC-$
 $PjPsP\parallel CrC, CH$ $ClPiC\tilde{H}P\ddot{e}C \ddagger P\ddot{e}PSP\ddot{e}C, P\ddot{e}$ $PiC\tilde{H}PsP \gg PsPSPIP^{\circ}C \ddagger C-C\tilde{H}$ $C-PSC, P\mu C\tilde{H}PIP^{\circ}P \gg Cr$ $QTCl$,
 $ClP \gg C-Pr$ $P \cdot$ $PsP \pm P\mu C\tilde{H}P\mu P\parallel PSC-C\tilde{I}C, C\tilde{H}$, $PsClPsP \pm P \gg P\ddot{e}PIPs$ $PiP^{\circ}C \ddagger C-C''PSC, P^{\circ}Pj$
 $P \gg C-C, PSCHPsPiPs$ $PIC-PeCr$, $PiP^{\circ}C \ddagger C-C''PSC, P^{\circ}Pj$ $C-P \cdot$ $PIC\tilde{H}PsPrP\parallel P\mu PSP\ddot{e}Pj$
 $ClP\ddot{e}PSPrC\tilde{H}PsPjPsPj$ $PiC\tilde{H}PsP \gg PsPSPIP^{\circ}C \ddagger C-C-$ $C-PSC, P\mu C\tilde{H}PIP^{\circ}P \gg Cr$ QT , $P \cdot P^{\circ}ClC, C-PN\epsilon PSPsC\tilde{H}$
 $ClP\mu C\tilde{H}C \ddagger P\mu PIPsC\tilde{H}$ $PSP\mu PrPsClC, P^{\circ}C, PSC-C\tilde{I}C, C\tilde{H}$, $PiC-PiP\mu C\tilde{H}C, C\tilde{H}PsC, C-C''C\tilde{H}$
 $ClP\mu C\tilde{H}C \ddagger C\tilde{U}$, $PiC-PiPsPeP^{\circ}P \gg C-C''PjC-C''C\tilde{H}$ $P^{\circ}P \pm Ps$ $PiC-PiPsPjP^{\circ}PiPSP\mu P \cdot C-C''PjC-C''C\tilde{H}$.

$PjC\tilde{H}PsPjP \pm PsP\mu PjP \pm PsP \gg C-C\tilde{U}$. $PkP\mu C \ddagger P^{\circ}ClC, Ps$ $PiPsPIC-PrPsPjP \gg C\tilde{U}P \gg PsClC\tilde{U}$ $PiC\tilde{H}Ps$
 $C, P\ddot{e}PjC \ddagger P^{\circ}ClPsPIP\ddot{e}PN\epsilon$ $P \cdot PI\tilde{b}\tilde{T}^{\text{TM}}$ $C\tilde{U}P \cdot PsPe$ $PjC-P\parallel P \gg C-PeCrPIP^{\circ}PSPSC\tilde{U}Pj$
 $PsP \gg P^{\circ}PSP \cdot P^{\circ}PiC-PSPsPj$ C, P° $PIP\ddot{e}PiP^{\circ}PrPeP^{\circ}PjP\ddot{e}$ $C\tilde{H}PsP \cdot PIP\ddot{e}C, PeCr$ $PIP\mu PSPsP \cdot PSPsC-$
 $C, C\tilde{H}PsPjP \pm PsP\mu PjP \pm PsP \gg C-C-$ $(\geq 0,1 \% \tilde{b}\tilde{T}'' < 1 \%)$. $P\mu C\tilde{H}P\ddot{e}C \ddagger P\ddot{e}PSPSPs-$
 $PSP^{\circ}ClP \gg C-PrPePsPIPsPiPs$ $P \cdot PI\tilde{b}\tilde{T}^{\text{TM}}$ $C\tilde{U}P \cdot PeCr$ $PjC-P\parallel P \gg C-PeCrPIP^{\circ}PSPSC\tilde{U}Pj$
 $PsP \gg P^{\circ}PSP \cdot P^{\circ}PiC-PSPsPj$ C, P° $C\tilde{H}PsP \cdot PIP\ddot{e}C, PePsPj$ $PIP\mu PSPsP \cdot PSPsC-$
 $C, C\tilde{H}PsPjP \pm PsP\mu PjP \pm PsP \gg C-C-$ $PSP\mu$ $PIC\tilde{I}C, P^{\circ}PSPsPIP \gg P\mu PSPs$. $PhPrPSP^{\circ}Pe$, $P \pm P\mu C\tilde{H}CrC \ddagger P\ddot{e}$
 $PrPs$ $CrPIP^{\circ}PiP\ddot{e}$ $C, P\mu$, $C\%Ps$ Cr $PiP^{\circ}C \ddagger C-C''PSC, C-PI$ $C-P \cdot$ $C\epsilon P\ddot{e}P \cdot PsC, C\tilde{H}P\mu PSC-C''C\tilde{H}$
 $C \ddagger P^{\circ}ClC, Ps$ $C\tilde{H}PsP \cdot PIP\ddot{e}PIP^{\circ}C''C, CHClC\tilde{U}$ $ClC \dots P\ddot{e}P \gg CHPePSC-C\tilde{I}C, CH$ $PrPs$

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 PrPsP₇PjC-PSC₇ C, P° PjPsP₇μ P₇C₇PsC, PëPrC-C₇C, Pë
PμC,, PμPeC, P°Pj P₇C₇C₇PjPëC... C- PSPμP₇C₇C₇PjPëC... P°P₇PsPSC-C₇C, C-PI PrPsP₇PjC-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, PsC₇PsPIC₇PIP°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»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-CÍPëPSPíCíPj 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-. PýPµCíPµPrPSCÍ 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%oPs 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.
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»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»CHPSPëC... 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 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 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»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 ΠΠΠΠΠΠΠPSPρPsPIP°PSPs Π·ΠC-ΠCΓPSCΨPIP°C, Π
ΠP»C-PSC-C±PSPΠΠ ΠΨPSC-C, PsCΨΠΠPi, 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 (ΠΠΠΠ. 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 ΠIP·P°C”ΠΨΠC-ΠB»).

ΠΠΠPSCCρ ΠΨC±P°C, ΠΠΠICρ ΠPsP·Cρ ΠΨPΠPSP° ΠCΨΠΠ·PSP°C±P°C, Π
ΠP°C†C-C”PSC, P°Π Π· ΠΠΠΠP±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 ΠΨΠΠP°P·P°PSPs, ΠΨC, CΨC-P±PSPs
Π·ΠC-ΠCΓPSCΨPIP°C, Π ΠΨCΓC, CρΠΨΠPs, Π· PsP±ΠCΨΠΠPSC-CΓC, CΨ (ΠΠΠΠ.
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 ΠIP·P°C”ΠΨΠC-ΠB» C, P°
B«P°CΨΠP°ΠΠP»PsΠC-C±PSC- ΠP»P°CΓC, ΠΠΠCΓC, 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-ΠΠΠ ΠPs 18 CΨPsΠC-Π) PSPΠ
CΨΠΠΠΠΠPSPρPsPIP°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-
ΠΠCΨPsC, ΠΠCΓC, CΨPsΠΠPIPc... ΠPsCΓP»C-ΠPΠΠPSCΨ Cρ ΠP°C†C-C”PSC, C-Π
ΠC-ΠP»C-C, ΠΠΠΠPsΠPs ΠC-ΠCρ ΠC-ΠP·PSP°C±P°P»PsCΓC Π·P±C-P»CΨCΠΠPSPSCΠ
ΠP°CΓΠC, C-C-P°, Π·ΠC-PSPC CΨC-ΠPSC-Π ΠCΨPsP»P°ΠC, ΠPSCρ C, P° Π»C-ΠC-ΠC-Π
ΠΨCΨC-ΠPSCΠPSPs Π· ΠPsCΨPsCΓP»ΠΠΠ (ΠΠΠΠ. 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°ΠΠP»PsΠC-C±PSC- ΠP»P°CΓC, ΠΠΠCΓC, C-B»).

ΠΠΠCΨΠΠΠPsP·CζPIP°PSPSCΠ.

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

Π†PSCΠΠΠ Π·PSP°C±PSPΠΠ CρCΓΠ»P°ΠPSPΠPSPSCΠΠ ΠΠCΨΠΠΠPsP·CρPIP°PSPSCΠ
C” ΠΠΠ»C-CΨC-Π, CΓCρΠPsΠΠ, ΠΠΠP°, ΠΨPΠP»ΠΠC-CΓC, CΨ CΨPsP·ΠΠC, ΠCρ
PSPΠΠCΨPsP»ΠΠC, ΠC±PSPsΠPs Π·P»PsCΠΠC-CΓPSPsΠPs CΓΠPSPρCΨPsΠCρ,
ΠCΨΠΠPSC-C±ΠPSPSCΠ ΠΠC...P°PSPSCΠ, P°CΓΠC-CΨP°C†C-Π,
P°CΨC, ΠCΨC-P°P»CΨPSP° ΠC-ΠΠCΨC, ΠPSP·C-Π P°P±Ps ΠC-ΠΨC, ΠPSP·C-Π,
CΓΠCΨC†ΠΠP° P°CΨΠC, ΠC-Π (< 2 % ΠΠΠΠP°ΠΠC-Π ΠΠCΨΠΠΠPsP·CρPIP°PSPSCΠ) C, P°

PeP°CḡPrC-PsPĩCfP»CHbPjPsPSP°P»CHbPSPëPNᵇ 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 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 CēP»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·PjPμPSCēCfC"
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»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"»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"PS,C,P°.

PμPsP±C-C‡PSC- CḡPμP°PeC†C-C—.

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

P"PsCḡPsCfP»C-

PkP°PNᵇC‡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¶PμPSCHb, 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%ᵇPμPSPSCḡ 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%ᵇPμPSPSCḡ 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«PhCfPsP±P»PēPIPsCfC,C– P·P°CfC,PsCfCfPIP°PSPSCЦB»), PrPēCfPeC–PSPμP·C–CЦ,
 PsCTḡC,PsCfC,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°CfPēPjPiC,PsPjP°C,PēC±PSPμ PiC–PrPIPēC%PμPSPSCЦ CTḡC–PIPSC–PI
 PīPμC±C–PSPePsPIPēC... C,CTḡP°PSCfP°PjC–PSP°P· (PrPēPI. CTḡPsP·PrC–P»
 B«PhCfPsP±P»PēPIPsCfC,C– P·P°CfC,PsCfCfPIP°PSPSCЦB»), PIPēCfPēPīP°PSPSCЦ,
 P°CfC,PμPSC–CЦ, CfC,PsPjP»CTḡPIP°PSC–CfC,CH, PiC–PīPμCTḡC,PμCTḡPjC–CЦ,
 P°CTḡC,CTḡP°P»PiC–CЦ, PiC–PrPIPēC%PμPSPSCЦ CTḡC–PIPSCЦ
 P°P»PeP°P»C–PSC,,PsCfC,,P°C,P°P·Pē, PiP°PjPjP°PiP»CfC,P°PjC–P»C,CTḡP°PSCfC,,PμCTḡP°P·Pē,
 CfPμC±PsPIPsC— PePēCfP»PsC,Pē, PeCTḡPμP°C,PēPSC,,PsCfC,,PsPeC–PSP°P·Pē C,P°
 PSP°P±CTḡCЦPePē.

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

PJ C,P°P±P»PēC†C– 1 PiC–PrCfCfPjPsPIP°PSPs PsCfPSPsPIPSC– PīPsP±C–C±PSC–
 CTḡPμP°PeC†C–C— C,P° C—C...PSCЦ C±P°CfC,PsC,P°, PIPēP·PSP°C±PμPSC– Cf C...PsPrC–
 PeP»C–PSC–C±PSPēC... PrPsCfP»C–PrP¶PμPSCH C,P°/P°P±Ps PSP° PsCfPSPsPIC–
 PīPsCfC,PjP°CTḡPePμC,PēPSPiPsPIPsPiPs PrPsCfPIC–PrCf.

P”CfP¶Pμ C±P°CfC,Ps (≥ 1/10), C±P°CfC,Ps (≥ 1/100 C,P° < 1/10), PSPμC±P°CfC,Ps (≥
 1/1000 C,P° < 1/100), CTḡC–PrPePs (≥ 1/10000 C,P°B < 1/1000), PrCfP¶Pμ CTḡC–PrPePs (<
 1/10000), C±P°CfC,PsC,P° PSPμPIC–PrPsPjP° (C±P°CfC,PsC,Cf PSPμ PjPsP¶PSP°
 PICfC,P°PSPsPIPēC,Pē PSP° PsCfPSPsPIC– PSP°CЦIPSPēC... PrP°PSPēC...).

PḡP°P±P»PēC†CЦ 1

P·CfP¶Pμ C±P°CfC,Ps	PSP°CfC,Ps	PePμC±P°CfC,Ps	P·C–PrPePs	PSP°CfC,PsC,P° PSμPIC–PrPsPjP°
P— P±PsPeCf CTPēCfC,PμPjPē PeCTḡPsPIPsC,PIPsCTḡPμPSPSCЦ C,P° P·C·PjC,,P°C,PeC±PSPsC— CTPēCfC,PμPjPē				
	P·PsP·PePSPsC,C–P·C–CЦ, P·PμPNεPePsPIPsPSC–CЦ ¹ , PSPμPWC,CTḡPsPIPsPSC–CЦ ¹⁰		PḡCTḡPsPjP±PsC†PēC,PsPIPsPSC–CЦ ¹¹	
P— P±PsPeCf C·PjCfPSPSPsC— CTPēCfC,PμPjPē				
		P°C–PIPsCfCfC,C,P°PePIC–CfC,CH ¹¹		
PμPsCTḡCfCfPμPSPSCЦ PsP±PjC–PSCf CTḡPμC±PsPIPsC,C,P° CTḡPsP·P·PrPē C,CTḡP°PIP°PμPSPSCЦ				
P—P±C–P·CHCfPμPSPSCЦ PjP°CTḡP C,C–P·P° ¹	PμC–PrPIPēC%PμPSPSCЦ CTḡC–PIPSCЦ C...PsP·PμCTC,PμCTḡPSCf ¹² , PjC–PrPIPēC%PμPSPSCЦ CTḡC–PIPSCЦ PIP°CHPePsP·Pē ¹ , PjC–PrPIPēC%PμPSPSCЦ CTḡC–PIPSCЦ C,CTḡPēPμC–CfPμCTḡPēPrC–P ¹³ , PIP°CHPePsP·CfCTḡC–CЦ, PjC–PrPIPēC%PμPSPSCЦ P°PIPsC,PēC,Cf	P PsP·PIPēC,PsPe P°P±Ps PIPsPIC–CTḡCfPμPSPSCЦ PIPμCTḡPμP±C–PjCf PrC–P°P±PμC,Cf, CTḡC–PrPePs PIPsPleḡ””CЦP·P°PSPsPiPs P PePjC,Ps°CfPēPrPsP·PsPj P°P±Ps PePsPjPsCH, PIPēP·CHCfP°CHCfPē PrPμCfCfC P·PμC,P°P·CHPSC– PIPēPjP°PrPePē (PrPēPI CTḡPsP·PrC–P·B«PhCfPs±P·PēPIPsCfC,C– P·P°CfC,PsCfCfPIP°PSPSCЦB»)	P°C–PIPsC,PμCTḡPjC–CЦ ¹²	
P— P±PsPeCf PSPμCTḡPIPsPIPsC— CTPēCfC,PμPjPē				
PḡPSPSP·PePIC–CfC,CH	P—P°P°PjPsCTḡPsCfPμPSPSCЦ, P°PeP°C,PēP·C–CЦ ¹ , PIP°CTḡPēC–PSCfPSPSC–P·Pj ¹ , PrPeCfPēC–PSPμP·C–CЦ ¹⁶	P·PIC–P·PμPIC,PeCfPSC– PSP°PIP°PrPe, C%Ps P±CfP·Pē PI P°PSP°PjPSPμP·C– P°P±Ps P±CfP·Pē PSP°CЦIPSPSC– C,P°PeC,PsCTḡPē CTḡPēP·PēPeCf ¹¹ , PrPeCfC,PsPSC–CЦ (PIPēP·CHCfPSPs P· PsPeCfP·CЦCTḡPSPēPj C†PēPjPIC,PsPjPsPj) ¹¹ , PjC–P·PSCЦ PrPēCfPēC–PSPμP·C–CЦ ¹¹ , P°PjPSPμP·C–CЦ ¹ , PrPēP·P°CTḡC,CTḡC–CЦ, P·P°C—PeP°PSPSCЦ ¹¹ , C†PēPSPCTḡPsPj PIC,PsPjP·PμPSPēC... PSC–P ¹¹	PēPμPNεCTḡPsP·PμPIC,PeCfPSPēPμ P·P·PsCfPēC–CTḡPSPēPμ C†PēPSPCTḡPsPj (PrPēPI. CTḡPsP·PrC–P·B«PhCfPs±P·PēPIPsCfC,C– P·P°CfC,PsCfCfPIP°PSPSCЦB»)	
P— P±PsPeCf CTPēCfC,PμPjPē PrPēC...P°PSPSCЦ, PsCTḡPIP°PSC–PI PICḡCfPrPSPsC— PeP·C–C,PēPē C,P° C†PμCTḡPμPrPsCfC,C–PSPSCЦ				
		PμCTḡPsPIPsC,PμCfP° P·PSPSCTḡ ¹³		
P— P±PsPeCf CTPμCTḡCfPμPIPsC— CTPēCfC,PμPjPē				
		P·CTḡP·PrPePē°CTḡPrC–CЦ, PjCḡPsP·PsPSPIP°CfC–CЦ C–PSC,PμCTḡPIP°P·Cf QT, (PrPēPI. CTḡPsP·PrC–P· B«PhCfPs±P·PēPIPsCfC,C– P·P°CfC,PsCfCfPIP°PSPSCЦB»)	P°PμPSC,CTḡPēCfP·CfCfPSP° C,P°C...C–PeP°CTḡPrC–CЦ,C–P±CTḡPēP·CfCfC–CЦ, CTḡP°PIC,PsPIP° C†PjPμCTḡC,CH B (PrPēPI. CTḡPsP·PrC–P· B«PhCfPs±P·PēPIPsCfC,C– P·P°CfC,PsCfCfPIP°PSPSCЦB»)	
P— P±PsPeCf C†CfPrPēPSPSPsC— CTPēCfC,PμPjPē				
PhCTḡC,PsCfC,P°C,PeCfPSP° PIC–PIPsC,PμPSP·C–CЦ ¹⁰		PḡCTḡPsPjP±PsPjPjP±PsP·C–CЦ (PIPēP·CHCfP°CHCfPē PμPjP±PsP·C–Cf P·PμPIPsPSPμPIPsC— P°CTḡC,PμCTḡC– C·P° PIP°PēP±PsPePēPμ PIPμPSPsP·PSPēPμ C,CTḡPsPjP±PsP·) (PrPēPI. CTḡPsP·PrC–P· B«PhCfPs±P·PēPIPsCfC,C– P·P°CfC,PsCfCfPIP°PSPSCЦB»)		
P— P±PsPeCf CēP·CfPSPePsPIPs–PePēCfPePsPIPsPIPs C,CTḡP°PeC,Cf				
	P·PμPIPsC– PePsCTḡPsC,PePsC,CTḡPēPIP°P·C– P°PSC,PēC...PsP·C–PSPμCTḡPIC–CfPSC– PμC,,PμPeC,Pē, PIPēP·CHCfP°CHCfPē P·P°PIPsCTḡPē C,P° C†CfC...C–CfC,CH Cf CTḡPsC,C–	P—PrCfC,C,CЦ P°PēPIPsC,P° ¹³ , PjC–PIPsCfCTḡPμPeCTḡPμCfC–CЦ C†P°PēPSPē ¹¹	PμP°PSPeCTḡPμP°C,PēC,Pē ¹¹	
P— P±PsPeCf PIPμPIP°C,PsP±C–P·C–P°CTḡPSPsC— CTPēCfC,PμPjPē				
	PḡCTḡPSP·PēC,PsCTḡPSC– P°CTḡPjPIC,PsPjP°C,PēCfPSC– PjC–PrPμPjPjPē CTḡC–PIPSCЦ PIPμCfC–PSPePsPIPsC... C,CTḡP°PSCfPjC–PSP°P· (PjP·PjPj C,P° PjC†PjPj), PsCTḡPs±P·PēPIPs PSP° PIPsCfP°C,PēCf P·C–PeCfPIP°PSPSCЦ (PrPēPI. CTḡPsP·PrC–P· B«PhCfPs±P·PēPIPsCfC,C– P·P°CfC,PsCfCfPIP°PSPSCЦB»)		P°PμPIP°C,PēC,Pē (PIPēP·CHCfP°CHCfPē PIPμPIP°C,PsCfPμP·CHP·CfCfPSPμ C...PsP·PμCfC,P°C,PēCfPSPμ P°P±Ps P·PjC–CēP°PSPμ C†CfPePsPrP¶PμPSPSCЦ PIPμCfC–PSPē) ¹¹	
P— P±PsPeCf CēPeC–CTḡPē C,P° C—C— PIPsC...C–PrPSPēC...				

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. P§P°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. P§PµCĤPµP· PIC-PrCİCıC, PSC-CİC, CHb C-PSC, PsCĤPjP°C†C-C— PİCĤPs PSP°CİPIPSC-CİC, CHb Pİ 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 PİPµCĤC...PSCHbPsPiPs CĤC-PIPSCİ PSPsCĤPjPë.

⁹ PµPsP±C-C†PSC- CĤPµP°PeC†C-C— PIPëP·PSP°C†PµPSPs Pİ CĤPµP·CıP»CHbC, P°C, C- PeP»C-PSC-C†PSPëC... PrPsCİP»C-PrP¶PµPSCH Pİ 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° Pİ CĤPµP·CıP»CHbC, P°C, C- PeP»C-PSC-C†PSPëC... PrPsCİP»C-PrP¶PµPSCH Pİ 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 $P_{\mu}P_sP_{\pm}C-C\ddagger PSC- C\tilde{H}P_{\mu}P^{\circ}PeC\ddagger C-C- PIP\ddot{e}P\cdot PSP^{\circ}C\ddagger P_{\mu}PSP_s P\cdot C- C\acute{I}P\ddot{i}PsPSC, P^{\circ}PSPSP\ddot{e}C...$
 $P\ddot{i}PsC\acute{I}C, PjP^{\circ}C\tilde{H}PeP_{\mu}C, P\ddot{e}PSP\ddot{i}PsPIP\ddot{e}C...$ $P\cdot PIC-C, C-PI P\cdot P\ddot{i}P_{\mu}C\tilde{H}C-PsPrP\ddot{e}C\ddagger PSC-C\acute{I}C, C\tilde{H}, C\%_{\circ}Ps$
 $PsC\ddagger C-PSP_{\mu}PSP^{\circ} P\cdot PIP\ddot{e}PePsC\tilde{H}P\ddot{e}C\acute{I}C, P^{\circ}PSPSC\ddot{I}Pj PrPsPIC-C\tilde{H}C\ddagger PsPiPs C-PSC, P_{\mu}C\tilde{H}PIP^{\circ}P\rangle C\acute{r} PI$
 $PIP_{\mu}C\tilde{H}C...PSC\tilde{H}PsPjC\acute{r} P\rangle C-PjC-C, C- PSPSc\tilde{H}PjP\ddot{e} (95 \%) PsC\acute{I}PSPsPIC-$
 $C-PSC, P_{\mu}PiC\tilde{H}PsPIP^{\circ}PSPsC- P\pm P^{\circ}P\cdot P\ddot{e} PrP^{\circ}PSP\ddot{e}C... PsP\rangle P^{\circ}PSP\cdot P^{\circ}PiC-PSC\acute{r}.$

$P'PIP\rangle P\ddot{e}PI P\ddot{i}C\tilde{H}P\ddot{e} PrPsPIPiPsC, C\tilde{H}P\ddot{e}PIP^{\circ}P\rangle PsPjC\acute{z} P\cdot P^{\circ}C\acute{I}C, PsC\acute{I}C\acute{z}PIP^{\circ}PSPSC- (PSP_{\mu}$
 $PjP_{\mu}PSC\epsilon P_{\mu} 48 C, P\ddot{e}P\tilde{I}PSC-PI).$ $P'C-PrC\acute{I}PsC, PsPe P\ddot{i}P^{\circ}C\ddagger C-C''PSC, C-PI, C\acute{r} C\ddot{I}PeP\ddot{e}C...$
 $PIC-PrP\cdot PSP^{\circ}C\ddagger P^{\circ}P\rangle P\ddot{e}C\acute{I}C\ddot{I} P\ddot{i}PsP_{\pm}C-C\ddagger PSC- C\tilde{H}P_{\mu}P^{\circ}PeC\ddagger C-C- C\acute{r} PIP\ddot{e}PiP\rangle C\ddot{I}PrC-$
 $PeP\rangle C-PSC-C\ddagger PSPs C\acute{I}C\acute{r}C, C, C''PIP_sPiPs P\ddot{i}C-PrPIP\ddot{e}C\%_{\circ}P_{\mu}PSPSC\ddot{I} PjP^{\circ}C\acute{I}P\ddot{e} C, C-P\rangle P^{\circ},$
 $P\cdot PjC-PSP\ddot{e} C\tilde{H}C-PIPSC\ddot{I} PiP\rangle C\tilde{H}PePsP\cdot P\ddot{e}, P\cdot P^{\circ}PiP^{\circ}P\rangle C\tilde{H}PSP_sPiPs$
 $C...PsP\rangle P_{\mu}C\acute{I}C, P_{\mu}C\tilde{H}P\ddot{e}PSC\acute{r}/P\rangle P_{\mu}P\acute{k}P\otimes/P\rangle P_{\mu}P'P\otimes P^{\circ}P\pm Ps C, C\tilde{H}P\ddot{e}PiP\rangle C-C\ddagger P_{\mu}C\tilde{H}P\ddot{e}PrC-PI,$
 $P\ddot{i}PsC\acute{I}C, C-PM_{\circ}PSPs P\cdot P\pm C-P\rangle C\tilde{H}C\epsilon C\acute{r}PIP^{\circ}PIC\acute{I}C\ddot{I}. PJ PrPsC\tilde{H}PsC\acute{I}P\rangle P\ddot{e}C... P\ddot{i}P^{\circ}C\ddagger C-C''PSC, C-PI,$
 $C\ddot{I}PeC- P\cdot P^{\circ}PeC-PSC\ddagger P\ddot{e}P\rangle P\ddot{e} 9-12-PjC-C\acute{I}C\ddot{I}C\ddagger PSP\ddot{e}PM_{\circ} PeC\acute{r}C\tilde{H}C\acute{I} C, P_{\mu}C\tilde{H}P^{\circ}PiC-C-, C, P_{\mu}PjP\ddot{i}$
 $P\ddot{i}C-PrPIP\ddot{e}C\%_{\circ}P_{\mu}PSPSC\ddot{I} C\tilde{H}C-PIPSC\ddot{I} PiP\rangle C\tilde{H}PePsP\cdot P\ddot{e} PI PeC\tilde{H}PsPIC- PSP^{\circ}C, C\%_{\circ}P_{\mu}$
 $C\acute{r}P\ddot{i}PsPIC-P\rangle C\tilde{H}PSP\ddot{e}PIC\acute{I}C\ddot{I} P\ddot{i}C\tilde{H}P\ddot{e}P\pm P\rangle P\ddot{e}P\cdot PSPs P\ddot{i}C-C\acute{I}P\rangle C\ddot{I} 6 PjC-C\acute{I}C\ddot{I}C\ddagger C-PI$
 $P\rangle C-PeC\acute{r}PIP^{\circ}PSPSC\ddot{I}.$

$P_{\mu}PsP_{\pm}C-C\ddagger PSC- C\tilde{H}P_{\mu}P^{\circ}PeC\ddagger C-C- PI PsPeC\tilde{H}P_{\mu}PjP\ddot{e}C... P\ddot{i}PsP\ddot{i}C\acute{z}P\rangle C\ddot{I}C\ddagger C-C\ddot{I}C.... PJ$
 $C...PsPrC- PeP\rangle C-PSC-C\ddagger PSP\ddot{e}C... PrPsC\acute{I}P\rangle C-PrP\tilde{I}P_{\mu}PSC\tilde{H} C\acute{r} P\ddot{i}P^{\circ}C\ddagger C-C''PSC, C-PI$
 $P\rangle C-C, PSC\tilde{H}PsPiPs PIC-PeC\acute{r} C-P\cdot PrP_{\mu}PjP_{\mu}PSC\ddagger C-C''C\tilde{H} C, P_{\mu}C\tilde{H}P^{\circ}PiC-C\ddot{I}$
 $PsP\rangle P^{\circ}PSP\cdot P^{\circ}PiC-PSPsPj P\pm C\acute{r}P\rangle P^{\circ} P\ddot{i}PsPI\tilde{B}\tilde{H}^{\text{TM}} C\ddot{I}P\cdot P^{\circ}PSP^{\circ} P\cdot P\ddot{i}C-PrPIP\ddot{e}C\%_{\circ}P_{\mu}PSP\ddot{e}Pj$
 $C\tilde{H}C-PIPSP_{\mu}Pj P\rangle P_{\mu}C, P^{\circ}P\rangle C\tilde{H}PSP\ddot{e}C... PIP\ddot{e}PiP^{\circ}PrPeC-PI C, P^{\circ}$
 $C\ddagger P_{\mu}C\tilde{H}P_{\mu}P\pm C\tilde{H}PsPIP^{\circ}C\acute{I}PeC\acute{r}P\rangle C\ddot{I}C\tilde{H}PSP\ddot{e}PjP\ddot{e} P\ddot{i}PsP_{\pm}C-C\ddagger PSP\ddot{e}PjP\ddot{e} C\tilde{H}P_{\mu}P^{\circ}PeC\ddagger C-C\ddot{I}PjP\ddot{e}$
 $P\ddot{i}PsC\tilde{H}C-PIPSC\ddot{I}PSPs P\cdot C, P^{\circ}PeP\ddot{e}Pj C\acute{r} PiC\tilde{H}C\acute{r}PiC- PiP\rangle P^{\circ}C\ddagger P_{\mu}P\pm Ps. P''C\acute{r}P\tilde{I}P_{\mu}$
 $P\ddot{i}PsC\epsilon P\ddot{e}C\tilde{H}P_{\mu}PSP\ddot{e}PjP\ddot{e} PSP_{\mu}P\pm P^{\circ}P\tilde{I}P^{\circ}PSP\ddot{e}PjP\ddot{e} P_{\mu}C, P_{\mu}PeC, P^{\circ}PjP\ddot{e}, P\ddot{i}PsPI\tilde{B}\tilde{H}^{\text{TM}} C\ddot{I}P\cdot P^{\circ}PSP\ddot{e}PjP\ddot{e}$
 $C-P\cdot P\cdot P^{\circ}C\acute{I}C, PsC\acute{I}C\acute{r}PIP^{\circ}PSPSC\ddot{I}Pj PsP\rangle P^{\circ}PSP\cdot P^{\circ}PiC-PSC\acute{r}, C\acute{r} PrP^{\circ}PSPsC- PiC\tilde{H}C\acute{r}PiP\ddot{e}$
 $P\ddot{i}P^{\circ}C\ddagger C-C''PSC, C-PI P\pm C\acute{r}P\rangle P\ddot{e} P\ddot{i}PsC\tilde{H}C\acute{r}C\epsilon P_{\mu}PSPSC\ddot{I} C...PsPrP\ddot{e} C, P^{\circ} P\ddot{i}P^{\circ}PrC-PSPSC\ddot{I}.$
 $P\tilde{S}P^{\circ}C\acute{I}C, Ps C\acute{I}P\ddot{i}PsC\acute{I}C, P_{\mu}C\tilde{H}C-PiP^{\circ}P\rangle P^{\circ}C\acute{I}C\ddot{I} P\ddot{i}PSP_{\mu}PIPjPsPSC-C\ddot{I}, P\ddot{i}C-PrPIP\ddot{e}C\%_{\circ}P_{\mu}PSPSC\ddot{I}$
 $C, P_{\mu}PjPiP_{\mu}C\tilde{H}P^{\circ}C, C\acute{r}C\tilde{H}P\ddot{e} C, C-P\rangle P^{\circ}, P\rangle P_{\mu}C, P^{\circ}C\tilde{H}PiC-C\ddot{I}, P_{\mu}C\tilde{H}P\ddot{e}C, P_{\mu}PjP^{\circ}, P\cdot PsC\tilde{H}PsPIC-$
 $PiP^{\circ}P\rangle C\tilde{H}C\ddagger P\ddot{e}PSP^{\circ}C\ddagger C-C- C, P^{\circ} PSP_{\mu}C, C\tilde{H}P\ddot{e}PjP^{\circ}PSPSC\ddot{I} C\acute{r}P_{\mu}C\ddagger C-.$

$PJ C...PsPrC- PeP\rangle C-PSC-C\ddagger PSP\ddot{e}C... PrPsC\acute{I}P\rangle C-PrP\tilde{I}P_{\mu}PSC\tilde{H} C\acute{I}P_{\mu}C\tilde{H}P_{\mu}Pr$
 $P\ddot{i}P^{\circ}C\ddagger C-C''PSC, C-PI P\cdot PjP_{\mu}PrP\ddot{e}PeP^{\circ}PjP_{\mu}PSC, PsP\cdot PSPs C-PSP\acute{r}C\acute{r}PePsPIP^{\circ}PSP\ddot{e}Pj$
 $(P^{\circ}PiPsPSC-C\acute{I}C, PrPsP\ddot{i}P^{\circ}PjC-PSC\acute{r}) P\ddot{i}C\acute{I}P\ddot{e}C...PsP\cdot PsPj, P\ddot{i}PsPI\tilde{B}\tilde{H}^{\text{TM}} C\ddot{I}P\cdot P^{\circ}PSP\ddot{e}Pj C-P\cdot$
 $C...PIPsC\tilde{H}PsP\pm PsC\tilde{H} P_{\mu}P^{\circ}C\tilde{H}PeC-PSC\acute{I}PsPSP^{\circ}, P\ddot{i}PsPiC-C\tilde{H}C\epsilon P_{\mu}PSPSC\ddot{I}$
 $P\ddot{i}P^{\circ}C\tilde{H}PeC-PSC\acute{I}PsPSC-PIC\acute{I}C\tilde{H}PePsC- C\acute{I}P\ddot{e}PjPiC, PsPjP^{\circ}C, P\ddot{e}PeP\ddot{e} C, P^{\circ}$
 $PiP^{\circ}P\rangle C\tilde{H}C\ddagger P\ddot{e}PSP^{\circ}C\ddagger C-C- PIC-PrP\cdot PSP^{\circ}C\ddagger P^{\circ}P\rangle PsC\acute{I}C\ddot{I} PrC\acute{r}P\tilde{I}P_{\mu} C\ddagger P^{\circ}C\acute{I}C, Ps,$
 $C\ddagger P^{\circ}C\acute{I}C, C-C\epsilon P_{\mu}, PSC-P\tilde{I} C\acute{r} PiC\tilde{H}C\acute{r}PiC- PiP\rangle P^{\circ}C\ddagger P_{\mu}P\pm Ps.$

$PJ C...PsPrC- PsPrPSPsPiPs PeP\rangle C-PSC-C\ddagger PSPsPiPs PrPsC\acute{I}P\rangle C-PrP\tilde{I}P_{\mu}PSPSC\ddot{I} C\acute{r}$
 $P\ddot{i}P^{\circ}C\ddagger C-C''PSC, C-PI C-P\cdot P\pm C-P\ddot{i}PsP\rangle C\ddot{I}C\tilde{H}PSPsC\tilde{H} PjP^{\circ}PSC-C''C\tilde{H} PI$
 $C\tilde{H}P_{\mu}P\cdot C\acute{r}P\rangle C\tilde{H}C, P^{\circ}C, C- P\cdot P^{\circ}C\acute{I}C, PsC\acute{I}C\acute{r}PIP^{\circ}PSPSC\ddot{I} PsP\rangle P^{\circ}PSP\cdot P^{\circ}PiC-PSC\acute{r} C\acute{r}$
 $PePsPjP\pm C-PSP^{\circ}C\ddagger C-C- P\cdot PIP^{\circ}P\rangle C\tilde{H}PiC\tilde{H}PsP^{\circ}C, PsPj C\acute{I}P\ddot{i}PsC\acute{I}C, P_{\mu}C\tilde{H}C-PiP^{\circ}P\rangle P^{\circ}C\acute{I}C\ddot{I}$
 $PSP_{\mu}PM_{\circ}C, C\tilde{H}PsPiP_{\mu}PSC-C\ddot{I} 4,1 \%; PjPsP\tilde{I}P\rangle P\ddot{e}PIPsC\tilde{H} P\ddot{i}C\tilde{H}P\ddot{e}C\ddagger P\ddot{e}PSPsC\tilde{H} PjPsP\tilde{I}P_{\mu}$
 $P\pm C\acute{r}C, P\ddot{e} P\ddot{i}C-PrPIP\ddot{e}C\%_{\circ}P_{\mu}PSPSC\ddot{I} C\tilde{H}C-PIPSC\ddot{I} PIP^{\circ}P\rangle C\tilde{H}PiC\tilde{H}PsP^{\circ}C, C\acute{r} C\acute{r}$
 $P\ddot{i}P\rangle P^{\circ}P\cdot PjC- PeC\tilde{H}PsPIC-.$

$PJ C\tilde{H}P_{\mu}P\cdot C\acute{r}P\rangle C\tilde{H}C, P^{\circ}C, C- P\cdot P^{\circ}C\acute{I}C, PsC\acute{I}C\acute{r}PIP^{\circ}PSPSC\ddot{I} PsP\rangle P^{\circ}PSP\cdot P^{\circ}PiC-PSC\acute{r} P\cdot$
 $P\rangle C-C, C-C''Pj P^{\circ}P\pm Ps PIP^{\circ}P\rangle C\tilde{H}PiC\tilde{H}PsP^{\circ}C, PsPj C\acute{I}P\ddot{i}PsC\acute{I}C, P_{\mu}C\tilde{H}C-PiP^{\circ}P\rangle P\ddot{e}C\acute{I}C\ddot{I}$

($\geq 10\%$) C, C₇H₁₄P₂PsC₇H₁₄, C₇H₁₄C...C-C₇H₁₄, C₇H₁₄ C₇ H₁₄PsC, C-, P·P±C-P»CH₃CEP₂SPSC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P°, PiC-PrPIPëC%P₂SPSC₇H₁₄ P°PiP₂C, PëC, C₇. P₇P°PePsP₇ PiPsPIC-PrPsPjP»C₇H₁₄P»Pë PiC₇H₁₄Ps PiPsC₇H₁₄C₇CEP₂SPSC₇H₁₄ PjPsPIP»P₂SPSC₇H₁₄. P₂C-Pr C₇P°C₇ C, P₂C₇H₁₄P°PiC-C— PsP»P°PSP·P°PiC-PSPsPj C₇ PePsPjP±C-PSP°C₇H₁₄C— P·P»C-C, C-C”Pj P°P±Ps PrPëPIP°P»PiC₇H₁₄PsP₂PeC₇H₁₄PsPj C₇ PiPsC₇H₁₄, P₂C₇H₁₄C-PiP°P»PsC₇H₁₄ P·P±C-P»CH₃CEP₂SPSC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P° $\geq 7\%$ B P₇P₂PsP₇ (C-PSPrP₂PeC₇H₁₄C₇ PjP°C₇H₁₄Pë C, C-P»P°) C₇ 17,4 % PiP°C₇H₁₄C-C”PSC, C-PI PiC-Pr C₇P°C₇ C-PSC, P₂SPSC₇H₁₄PëPIPSPsC— C, P₂C₇H₁₄P°PiC-C— (PrPs 6 C, PëP₇SPSC-PI). P”PsPiPiPsC, C₇H₁₄PëPIP°P»P₂ P»C-PeC₇H₁₄P°PSPSC₇H₁₄ PsP»P°PSP·P°PiC-PSPsPj (PrPs 12 C, PëP₇SPSC-PI) PrP»C₇H₁₄ PiPsPiP₂C₇H₁₄PrP₇P₂SPSC₇H₁₄ C₇H₁₄P₂C₇H₁₄PëPrPëPIC-PI C₇ PiP°C₇H₁₄C-C”PSC, C-PI C-P· P±C-PiPsP»C₇H₁₄SPSPëPjPë C₇H₁₄PsP·P»P°PrP°PjPë P±C₇H₁₄P»Ps PiPsPiPsTM C₇H₁₄P·P°PSPs P· PiC-PrPIPëC%P₂SPSC₇H₁₄Pj PjP°C₇H₁₄Pë C, C-P»P° $\geq 7\%$ P₇P₂PsP₇ C₇ 39,9 % PiP°C₇H₁₄C-C”PSC, C-PI.

P”C-C, Pë.

P₇H»P°PSP·P°PiC-PS PSP₂ PiPsPeP°P·P°PSPëP₂ PrP»C₇H₁₄ P»C-PeC₇H₁₄P°PSPSC₇H₁₄ PrC-C, P₂PN₂ C, P° PiC-PrP»C-C, PeC-PI (PIC-PePsPj PrPs 18 C₇H₁₄PsPeC-PI). P₇H»P»C-PSC-C₇H₁₄PSC- PrPsC₇H₁₄P»C-PrP₇P₂SPSC₇H₁₄, C₇H₁₄PeC- PiPsC₇H₁₄C-PIPSC₇H₁₄P°P»Pë P·P°C₇H₁₄, PsC₇H₁₄C₇H₁₄P°PSPSC₇H₁₄ PsP»P°PSP·P°PiC-PSCr C₇ PiC-PrP»C-C, PeC-PI C, P° PrPsC₇H₁₄PsC₇H₁₄P»PëC..., PSP₂ PiC₇H₁₄PsPiPsPrPëP»PëC₇H₁₄.

P₇KPëP₇C₇H₁₄P₂ PIPeP°P·P°PSC- PiPsP±C-C₇H₁₄PSC- C₇H₁₄P₂P°PeC₇H₁₄C—, C%Ps PIPëPSPëPeP°C₇H₁₄, C₇H₁₄ C₇P°C₇H₁₄, C-C₇H₁₄ C₇ PiC-PrP»C-C, PeC-PI (PIC-PePsPj PIC-Pr 13-17 C₇H₁₄PsPeC-PI), PSC-P₇ C₇ PrPsC₇H₁₄PsC₇H₁₄P»PëC..., P°P±Ps PiPsP±C-C₇H₁₄PSC- C₇H₁₄P₂P°PeC₇H₁₄C—, C%Ps P±C₇H₁₄P»Pë PIPëC₇H₁₄PIP»P₂SPSC- C, C-P»CH₃PePë PiC-Pr C₇P°C₇H₁₄ PePsC₇H₁₄PsC, PePsC, C₇H₁₄PëPIP°P»PëC... PeP»C-PSC-C₇H₁₄PSPëC... PrPsC₇H₁₄P»C-PrP₇P₂SPSC₇H₁₄ C₇ PiC-PrP»C-C, PeC-PI. P₇H»P»C-PSC-C₇H₁₄SPS P·PSP°C₇H₁₄C%P₂ P·P±C-P»CH₃CEP₂SPSC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P° ($\geq 7\%$) C₇P°C₇H₁₄, C-C₇H₁₄ C₇ PiPsC₇H₁₄, P₂C₇H₁₄C-PiP°P»PsC₇H₁₄ C₇ PiC-PrP»C-C, PeC-PI PiPsC₇H₁₄C-PIPSC₇H₁₄SPs P· PrPsC₇H₁₄PsC₇H₁₄P»PëPjPë. P₂C-Pr C₇P°C₇ PrPsPiPiPsC, C₇H₁₄PëPIP°P»PsPiPs P»C-PeC₇H₁₄P°PSPSC₇H₁₄ (PSP₂ PjP₂SPSC₇H₁₄ 24 C, PëP₇SPSC-PI) PeP»C-PSC-C₇H₁₄SPS P·PSP°C₇H₁₄C%P₂ P·P±C-P»CH₃CEP₂SPSC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P° P±C₇H₁₄P»Ps PIPëC%PëPj, PSC-P₇ PiC-Pr C₇P°C₇ PePsC₇H₁₄PsC, PePsC, C₇H₁₄PëPIP°P»PsPiPs P»C-PeC₇H₁₄P°PSPSC₇H₁₄.

P₇S°C₇H₁₄, PsC, C₇ PiPsP±C-C₇H₁₄PSPëC... C₇H₁₄P₂P°PeC₇H₁₄-PN₂, P·P°P·PSP°C₇H₁₄SPSPëC... PSPëP₇C₇H₁₄, PIPëP·PSP°C₇H₁₄, C₇H₁₄ C, P°PePëPj C₇PëPSPsPj: PrC₇H₁₄P₂ C₇P°C₇H₁₄, Ps ($\geq 1/10$), C₇P°C₇H₁₄, Ps ($\geq 1/100 - < 1/10$).

P₂PsC₇H₁₄C₇CEP₂SPSC₇H₁₄ PsP±PjC-PSC₇H₁₄ C₇H₁₄P₂C₇H₁₄PsPIPëPS C, P° C₇H₁₄PsP·P»P°PrPë C...P°C₇H₁₄C₇H₁₄P°PSPSC₇H₁₄.

P”C₇H₁₄P₂ C₇P°C₇H₁₄, Ps: P·P±C-P»CH₃CEP₂SPSC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P°¹³, PiC-PrPIPëC%P₂SPSC₇H₁₄ C₇H₁₄C-PIPSC₇H₁₄ C, C₇H₁₄PëPiP»C-C₇H₁₄P₂C₇H₁₄PrC-PI¹⁴, PiC-PrPIPëC%P₂SPSC₇H₁₄ P°PiP₂C, PëC, C₇.

P₇S°C₇H₁₄, Ps: PiC-PrPIPëC%P₂SPSC₇H₁₄ C₇H₁₄C-PIPSC₇H₁₄ C...PsP»P₂C₇H₁₄, P₂C₇H₁₄PëPSC₇H₁₄¹⁵.

P— P±PsPeC₇ PSP₂C₇H₁₄PIPsPiPsC— C₇H₁₄PëC₇H₁₄, P₂PjPë.

P”C₇H₁₄P₂ C₇P°C₇H₁₄, Ps: C₇H₁₄PrP°C₇H₁₄-C₇H₁₄ (C₇ C, PsPjC₇ C₇PëC₇H₁₄P»C- PiC-PiP₂C₇H₁₄C₇H₁₄PsPjPSC-C₇H₁₄, PjP»C₇H₁₄PIC-C₇H₁₄, C₇PsPSP»PëPIC-C₇H₁₄, C₇H₁₄).

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
PiCfPsP»P°PeC,P€PSCf Cf PiP»P°P·PjC- PeCfPsPIC⁻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- PeCfPsPIC-.

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°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-PrCГĆC,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°.