

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

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

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

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

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

C€P€P·PsC,,CḡPμPSC-Cḡ P· PīPsP·P€C,P€PIPSP€PjP€ C- PSpμPiP°C,P€PIPSP€PjP€
CḡP€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€PIPSC-CḡC,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€PIPSC-CḡC,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€PIPSC-CḡC,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·PrPsC₇PsPIPëC... PrPsP±C₇PsPSP»CHC†C-PI P»C-C,PSCH₇PsPiPs PIC-PeCr (PIC-Pr 65 C₇PsPeC-PI) PiPsC₇C-PIPSC₇PPSPs P·PjPsP»PsPrC€PëPjPë P·P° PIC-PePsPj PrPsP±C₇PsPSP»CHC†C₇PjPë, C₇PμC₇PμPrPSC-PNë PiPμC₇C-PsPr PSP°PiC-PIPIPëPIPμPrPμPSPSC₇ P±CrPI C,C₇PëPIP°P»C-C€PëPNë (51,8 PiC₇PsC,PëB 33,8 PiPsPrPëPSPë), PeP»C-C₇PμPSC₇ Cr PiP»P°P·PjC- PeC₇PsPIC- P±CrPI P·PSPëP₇PμPSPëPNë (17,5 PiC₇PsC,Pë 18,2 P»/PiPsPr). P»P°C₇PjP°PePsPeC-PSPμC,PëC†PSC-PePsP»PëPIP°PSPSC₇, C°%Ps C₇PiPsC₇C,PμC₇C-PiP°P»PëC₇C₇ Cr PrPsP±C₇PsPSP»CHC†C-PI P»C-C,PSCH₇PsPiPs PIC-PeCr, P·PSP°C...PsPrC₇C,C₇C₇C₇ Cr PjPμP₇P°C... PrC-P°PiP°P·PsPSC₇ PrP»C₇ PjPsP»PsPrC€PëC... PrPsP±C₇PsPSP»CHC†C-PI. PJ 44 C...PIPsC₇PëC... PSP° C€PëP·PsC,,C₇PμPSC-C₇ PIC-PePsPj > 65 C₇PsPeC-PI PrPsP·C₇PIP°PSPSC₇ PIC-Pr 5 PrPs 20 PjPi/PrPsP±Cr PSPμ P±CrP»Ps PiPsPiB₇TM C₇P·P°PSPs P·P₇PsPrPSPëPj C...P°C₇P°PeC,PμC₇PSPëPj PiC₇PsC,,C-P»PμPj PSPμP±P°P₇P°PSPëC... C₇PIPëC°%.

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). PhPrPSP°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¶P¶P±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-CHPμPSCÍ PsP»P°PSP·P°PíC-PSCÍ CÍ PíP»P°P·PjC- PeCHPsPIC- C,P° PíPμCHC-PsPr
PSP°PíC-PIPIPëPIPμPrPμPSPSCÍ PsP»P°PSP·P°PíC-PSCÍ PSPμP·PSP°C±PSPëPN
PíPsCHC-PIPSCÍPSPs P· P·P°PíP°P»CHPSPsCH PjC-PSP»PëPIC-CÍC,CH PjC-P¶
C-PSPPrPëPIC-PrCÍCÍPjP°PjPë.

PJ PíCHPsC†PμCÍC- PrPsCÍP»C-PrP¶PμPSCH P· CÍC±P°CÍC,CH PíP°C†C-C°PSC,C-PI-
C°PICCHPsPíPμPN°C†C-PI, PíP°C†C-C°PSC,C-PI CÍPíPsPSCÍCHPePsC— C,P°
PePëC,P°PN°CÍCHPePsC— PSP°C†C-PsPSP°P»CHPSPsCÍC,PμPN PIC-PrPjC-PSPSPsCÍC,PμPN CÍ
C„P°CHPjP°PePsPeC-PSPμC,PëC†C- PsP»P°PSP·P°PíC-PSCÍ PSPμ PIPëCÍPIP»PμPSPs.

P°C-C,Pë.

PαP°CHPjP°PePsPeC-PSPμC,PëPeP° PsP»P°PSP·P°PíC-PSCÍ CÍ PíC-PrP»C-C,PeC-PI (PIC-Pr 13
PrPs 17 CHPsPeC-PI) C- PrPsCHPsCÍP»PëC... PíPsPrC-P±PSP°. PJ C...PsPrC-
PeP»C-PSC-C±PSPëC... PrPsCÍP»C-PrP¶PμPSCH CÍPμCHPμPrPSC-PN PIPíP»PëPI
PsP»P°PSP·P°PíC-PSCÍ P±CÍPI PíCHPëP±P»PëP·PSPs PSP° 27 % PIPëC%PëPN CÍ
PíC-PrP»C-C,PeC-PI. P°PμPjPsPíCHP°C„C-C±PSC- PIC-PrPjC-PSPSPsCÍC,C- PjC-P¶
PíC-PrP»C-C,PeP°PjPë C- PrPsCHPsCÍP»PëPjPë PIPeP»CHC±P°CHC,CH PSPëP¶C±CÍ
CÍPμCHPμPrPSC PjP°CÍCÍ C,C-P»P° C,P° PjPμPSCëCÍ PeC-P»CHPeC-CÍC,CH PeCÍCHC†C-PI
CÍPμCHPμPrB PíP°C†C-C°PSC,C-PI PíC-PrP»C-C,PePsPIPsiPs PIC-PeCÍ. PýP°PeC-
C„P°PeC,PsCHPë, PNëPjPsPIC-CHPSPs, PIPíP»PëPIP°CHC,CH PSP° PIPëC%PëPN
CÍPμCHPμPrPSC-PN PμC„PμPeC, PsP»P°PSP·P°PíC-PSCÍ, C°Ps CÍPíPsCÍC,PμCHC-PiP°PICÍCÍ
CÍ PíC-PrP»C-C,PeC-PI.

P°P»C-PSC-C±PSC- C...P°CHP°PeC,PμCHPëCÍC,PëPePë.

PμPsPeP°P·P°PSPSCÍ.

PhP»P°PSP·P°PíC-PS PíPsPeP°P·P°PSPëPN PrP»CÍ P»C-PeCÍPIP°PSPSCÍ
CëPëP·PsC„CHPμPSC-C—.

PhP»P°PSP·P°PíC-PS PμC„PμPeC,PëPIPSPëPN PrP»CÍ PíC-PrC,CHPëPjP°PSPSCÍ
PrPsCÍCÍPIPSCÍC,PsPiPs PeP»C-PSC-C±PSPsPiPs PμC„PμPeC,CÍ PíC-Pr C±P°CÍ
C,CHPëPIP°P»PsC— C,PμCHP°PíC-C— CÍ PíP°C†C-C°PSC,C-PI, CÍ CÍPePëC...
CÍPíPsCÍC,PμCHC-PiP°P»P°CÍCÍ PIC-PrPíPsPIC-PrCH PSP° PíPsC±P°C,PePsPICÍ
C,PμCHP°PíC-CH.

PhP»P°PSP·P°PíC-PS PíPsPeP°P·P°PSPëPN PrP»CÍ P»C-PeCÍPIP°PSPSCÍ
PjP°PSC-P°PeP°P»CHPSPëC... PμPíC-P·PsPrC-PI PíPsPjC-CHPSPsPiPs C,P°
C,CÍP¶PePsPiPs CÍC,CÍPíPμPSCÍ.

PhP»P°PSP·P°PíC-PS PíPsPeP°P·P°PSPëPN PrP»CÍ PíCHPsC„C-P»P°PeC,PëPePë
PíPsPIC,PsCHPSPëC... PSP°PíP°PrC-PI CÍ PíP°C†C-C°PSC,C-PI P·
P±C-PíPsP»CÍCHPSPëPjPë CHPsP·P»P°PrP°PjPë, CÍ CÍPePëC... P±CÍP»Ps
PsC,CHPëPjP°PSPs PíPsP·PëC,PëPIPSCÍ PIC-PrPíPsPIC-PrCH PíCHPë
P»C-PeCÍPIP°PSPSC- PsP»P°PSP·P°PíC-PSPsPjP°PSC-C—.

PμCḡPsC,PëPĩPsPeP°P·P°PSPSCII.

PμC-PrPIPëC%PμPSP° C±CřC,P»PëPIC-CřC,CH PrPs PrC-CḡC±PsC— CḡPμC±PsPIPëPSPë P°P±Ps PrPs P±CřPrCH-CIIPePsC— P· PrPsPĩPsPjC-PḡPSPëC... CḡPμC±PsPIPëPS PĩCḡPμPĩP°CḡP°C,Cř; PIC-PrPsPjPëPNë CḡPëP·PëPe P·P°PeCḡPëC,PsPeCřC,PsPIPsC— PiP»P°CřPePsPjPë.

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

P'C-PrPsPjPs, C%Ps PrPsCřP»C-PrPḡPμPSPSCII PIP·P°C" PjPsPrC-C— P· C-PSC€PëPjPë P»C-PeP°CḡCřCHPePëPjPë P·P°CřPsP±P°PjPë PĩCḡPsPIPsPrPëP»Pë C,C-P»CHPePë P· CřC±P°CřC,CH PrPsCḡPsCřP»PëC... PĩP°C†C-C" PSC,C-PI.

P'P·P°C" PjPsPrC-C—, C%Ps PjP°CḡC,CH PĩPsC,PμPSC†C-PNëPSPëPNë PIPĩP»PëPI PSP°
PsP»P°PSP·P°PĩC-PS

PḡCřPeC-P»CHPePë PsP»P°PSP·P°PĩC-PS PjPμC,P°P±PsP»C-P·CřC"C,CHCřCI
C-P·PsC,,PμCḡPjPμPSC,PsPj CYP1A2, CḡPμC±PsPIPëPSPë, C%Ps CřPĩPμC†PëC,,C-C±PSPs
C-PSPiC-P±CřCḡC,CH P°P±Ps C-PSPrCřPeCřCḡC,CH C†PμPNë C-P·PsC,,PμCḡPjPμPSC,,
PjPsPḡCřC,CH PIPĩP»PëPIP°C,Pë PSP° C,,P°CḡPjP°PePsPeC-PSPμC,PëPeCř
PsP»P°PSP·P°PĩC-PSCř.

P†PSPrCřPeC,PsCḡPë CYP1A2

PḡPμC,P°P±PsP»C-P·Pj PsP»P°PSP·P°PĩC-PSCř PjPsPḡPμ P±CřC,Pë
C-PSPrCřPePsPIP°PSPëPNë PĩP°P»C-PSPSCII Pj C,P° P·P°CřC,PsCřCřPIP°PSPSCII Pj
PeP°CḡP±P°PjP°P·PμPĩC-PSCř, CIIPePëPNë PĩCḡPëP·PIPsPrPëC,CH PrPs
P·PSPëPḡPμPSPSCII PePsPSC†PμPSC,CḡP°C†C-C— PsP»P°PSP·P°PĩC-PSCř.
PŸPĩPsCřC,PμCḡC-PĩP°P»PsCřCI CřP»P°P±PePμ P°P±Ps PĩPsPjC-CḡPSPμ
PĩC-PrPIPëC%PμPSPSCII PeP»C-CḡPμPSCřCř PsP»P°PSP·P°PĩC-PSCř. PḡP»C-PSC-C±PSC-
PIPëCřPSPsPIPePë PsP±PjPμPḡPμPSC-, P°P»Pμ CḡPμPePsPjPμPSPrCřC"C,CHCřCI
PeP»C-PSC-C±PSPëPNë PjPsPSC-C,PsCḡPëPSPi C,P°, CIIPeC%Ps PSPμPsP±C...C-PrPSPs,
P·P±C-P»CHC€PμPSPSCII PrPsP·Pë PsP»P°PSP·P°PĩC-PSCř (PrPëPI. CḡPsP·PrC-P»
B«PŸPĩPsCřC-P± P·P°CřC,PsCřCřPIP°PSPSCII C,P° PrPsP·PëB»).

P†PSPiC-P±C-C,PsCḡPë CYP1A2

PḡP»CřPsPeCřP°PjC-PS, CřPĩPμC†PëC,,C-C±PSPëPNë C-PSPiC-P±C-C,PsCḡ CYP1A2,
C-CřC,PsC,PSPs P·PSPëPḡCřC" PjPμC,P°P±PsP»C-P·Pj PsP»P°PSP·P°PĩC-PSCř. PĩPμ
PĩCḡPëP·PIPsPrPëC,CH PrPs CřPμCḡPμPrPSCHPsPiPs P·CḡPsCřC,P°PSPSCII
PjP°PeCřPëPjP°P»CHPSPsC— PePsPSC†PμPSC,CḡP°C†C-C— (C_{max}) PĩC-CřP»CI PĩCḡPëPNëPsPjCř
C,,P»CřPsPeCřP°PjC-PSCř PSP° 54 % CřPμCḡPμPr PḡC-PSPsPe, CIIPeC- PSPμ PĩP°P»CIIC,CH,
C,P° PSP° 77 % CřPμCḡPμPr C±PsP»PsPIC-PeC-PI, CIIPeC- PĩP°P»CIIC,CH. PŸPμCḡPμPrPSC"
P·CḡPsCřC,P°PSPSCII PĩP»PsC%C- PĩC-Pr C,,P°CḡPjP°PePsPeC-PSPμC,PëC±PSPsCḡ
PeCḡPëPIPsCḡ B«PePsPSC†PμPSC,CḡP°C†C-CI-C±P°CřB» (AUC) PsP»P°PSP·P°PĩC-PSCřB
CřC,P°PSPsPIPeC,CH 52 % C,P° 108 % PIC-PrPĩPsPIC-PrPSPs. P" P»CI
PĩP°C†C-C" PSC,C-PI, CIIPeC- P·P°CřC,PsCřPsPICřCḡC,CH C,,P»CřPsPeCřP°PjC-PS
P°P±Ps P±CřPrCH-CIIPeC- C-PSC€C- C-PSPiC-P±C-C,PsCḡPë CYP1A2,
PSP°PĩCḡPëPeP»P°Pr C†PëPĩCḡPsC,,P»PsPeCřP°C†PëPS, PSPμPsP±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 CTjPμPePsPjPμPSPrPsPIP°PSPs
P·P°CfC,PsCfCfPIP°PSPSCl P sP»P°PSP·P°PiC-PSCf PI C,PμCTjP°PiC-C— PiCfPëC...PsP·C-PI,
C%Ps P°CfPsCtC-PNëPsPIP°PSC- P· P°PiPsPSC-CfC,P°PjPë PrPsPiP°PjC-PSCf Cr
PiP°CtC-C”PSC,C-PI C-P· C...PIPsCTjPsP±PsCf PμP°CTjPeC-PSCfPsPSP°. PJ C...PsPrC-
PeP»C-PSC-C†PSPëC... PrPsCfP»C-PrP¶PμPSCH PrCfP¶Pμ C†P°CfC,Ps
CfPiPsCfC,PμCTjC-PiP°P»PsCfCl PiPsPiC-CTjC€PμPSPSCl CfPëPjPiC,PsPjP°C,PëPePë
C...PIPsCTjPsP±Pë PμP°CTjPeC-PSCfPsPSP° C,P° PiP°P»CfCtPëPSP°CtC-PNë, C†P°CfC,C-C€Pμ,
PSC-P¶ PiCTjPë PiCTjPëPNëPsPjC- PiP»P°CtPμP±Ps (PrPëPI. CTjPsP·PrC-P» B«PμPsP±C-C†PSC-
CTjPμP°PeCtC-C—B»); PiCTjPë P»C-PeCfPIP°PSPSC- PiCfPëC...PsC,PëC†PSPëC...
CfPëPjPiC,PsPjC-PI C,PμCTjP°PiC-Cl PsP»P°PSP·P°PiC-PSPsPj PSPμ P±CfP»P° P±C-P»CHC€
PμC,,PμPeC,PëPIPSPsCf PiPsCTjC-PIPSClPSPs C-P· P·P°CfC,PsCfCfPIP°PSPSClPj
PiP»P°CtPμP±Ps. P— CfP°PjPsPiPs PiPsC†P°C,PeCf C†PëC... PrPsCfP»C-PrP¶PμPSCH PIC-Pr
PiP°CtC-C”PSC,C-PI PIPëPjP°PiP°P»PsCfCl PiPsCfC,C-PNëPSPμ P·P°CfC,PsCfPsPICfPIP°PSPSCl
PSP°PNëPjPμPSC€PsC— PμC,,PμPeC,PëPIPSPsC— PrPsP·Pë
P°PSC,PëPiP°CTjPeC-PSCfPsPSC-C†PSPëC... 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°PSPSCl
C,PëC... CfP°PjPëC... P°PSC,PëPiP°CTjPeC-PSCfPsPSC-C†PSPëC... P»C-PeP°CTjCfCHPePëC...
P·P°CfPsP±C-PI C- PrPsP· PiCTjPsC,ClPiPsPj CrCfCHPsPiPs PrPsCfP»C-PrP¶PμPSPSCl.
PÿPμCTjP°PiC-Cf PsP»P°PSP·P°PiC-PSPsPj P±CfP»Ps CTjPsP·PiPsC†P°C,Ps P· PrPsP·Pë 2,5
PiPi/PrPsP±Cf, ClPeCf P·P±C-P»CHC€CfPIP°P»Pë C€P»ClC...PsPj C,PëC,CTjCfPIP°PSPSCl 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°C₇Cr C, C-P»P°, PSP°P_iC₇H₅PëPeP»P°Pr, PSP° P_iPsC₇P° C, PeC₇
P»C-PeC₇PIP°PSPSC₇, C₇P_μC₇H₅P_μP· 4 C, PëP₇PSC-, C₇P_μC₇H₅P_μP· 8 C, PëP₇PSC-PI C, P° C₇P_μC₇H₅P_μP·
12 C, PëP₇PSC-PI, P° C, P°PePsP₇ P₅PrPëPS C₇H₅P°P· PSP° PePIP°C₇C, P°P» Cr
P_iPsPrP°P»CHC₇PsPjCr.

P—PjC-PSPë C₇H₅C-PIPSC₇ P»C-PiC-PrC-PI. P₆P_μP±P°P₇P°PSC- P·PjC-PSPë C₇H₅C-PIPSC₇
P»C-PiC-PrC-PI C₇P_iPsC₇Cr, P_μC₇H₅C-PiP°P»PëC₇Cr C₇ P_iP°C₇C-C°PSC, C-PI, C₇IPeC-
PsC, C₇H₅PëPjCrPIP°P»Pë PsP»P°PSP·P°PiC-PS Cr P_iP»P°C₇P_μP±Ps-
PePsPSC, C₇H₅PsP»CH₅PsPIP°PSPëC... PeP»C-PSC-C₇PSPëC... PIPëP_iC₇H₅PsP±C₇PIP°PSPSC₇C....
P—PjC-PSPë C₇H₅C-PIPSC₇ P»C-PiC-PrC-PI C₇P»C-Pr PePsC₇H₅P_μPiC₇PIP° C, Pë PSP°P»P_μP₇PSPëPj
C₇PëPSPsPj Cr P_iP°C₇C-C°PSC, C-PI C-P· PrPëC₇P»C-PiC-PrP_μPjC-C°C₇ C, P° Cr
P_iP°C₇C-C°PSC, C-PI C-P· C, P°PeC, PsC₇H₅P°PjPë C₇H₅PëP·PëPeC₇ C₇PsP·PIPëC, PeC₇
P_iPsC₇CrC₇PsPSC₇ 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, PëP_iC₇PëC...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 Cr
PeC₇PsPIC-, PSP°P_iC₇H₅PëPeP»P°Pr, PSP° P_iPsC₇P° C, PeC₇ P»C-PeC₇PIP°PSPSC₇, C₇P_μC₇H₅P_μP· 12
C, PëP₇PSC-PI, P° C, P°PePsP₇ PePsP₇PSC- 5 C₇H₅PsPeC-PI Cr P_iPsPrP°P»CHC₇PsPjCr.

P₇H₅PSC, PëC...PsP»C-PSP_μC₇H₅PiC-C₇PSP° P°PeC, PëPIPSC-C₇Cr, CH₅. Pj C...PsPrC-
PeP»C-PSC-C₇PSPëC... PrPsC₇P»C-PrP₇P_μPSCH₅ PIPëC₇PIP»P_μPSPs PSPëP·CH₅PeC₇
C₇P°C₇Cr, PsC, Cr P°PSC, PëC...PsP»C-PSP_μC₇H₅PiC-C₇PSPëC... C₇IPIPëC%. P₇H₅PrPSP°Pe
C₇P_μC₇H₅P_μP· PsP±PjP_μP₇P_μPSC-C₇Cr, CH₅ PeP»C-PSC-C₇PSPsPiPs PrPsC₇PIP-PrCr
P·P°C₇Cr, PsC₇CrPIP°PSPSC₇ PsP»P°PSP·P°PiC-PSC₇ P_iP°C₇C-C°PSC, P°Pj C-P·
C₇CrP_iCrC, PSC-PjPë P·P°C...PIP₅C₇H₅PIP°PSPSC₇PjPë C₇P»C-Pr P±C₇Cr, Pë
PsP±P_μC₇H₅P_μP₇PSPëPjPë P_iC₇H₅Pë P_iC₇H₅PëP·PSP°C₇P_μPSPSC- P_iC₇H₅P_μP_iP°C₇P° C, Cr
P_iP°C₇C-C°PSC, P°Pj C-P· PiC-P_iP_μC₇H₅C, C₇PsC, C-C°C₇ P_iC₇PsC₇Cr, P°C, Pë,
P_iP°C₇P°P»C-C, PëC₇PSPsC₇ PePëC₇PePsPIP₅C₇ PSP_μP_iC₇PsC...C-PrPSC-C₇Cr, C₇
P°P±Ps P_iPsPrC-P±PSPëPjPë C₇Cr, P°PSP°PjPë.

P_μPsPeP°P·PSPëPePë P_iP_μC₇C-PSPePsPIPsC— C, C₇PSPeC₇C-C—. P_μC₇H₅Pë
P·P°C₇Cr, PsC₇CrPIP°PSPSC- PsP»P°PSP·P°PiC-PSC₇ C₇P°C₇Cr, Ps
C₇P_iPsC₇Cr, P_μC₇H₅C-PiP°P»PëC₇Cr C, C₇H₅P°PSP·PëC, PsC₇H₅PSC-
P°C₇PëPjPiC, PsPjP° C, PëC₇PSC- PiC-PrP_μPsPjPë C₇H₅C-PIPSC₇ P_iP_μC₇C-PSPePsPIPëC...
C, C₇H₅P°PSC₇P°PjC-PSP°P· P₇H₅P»P₇P₇ C, P° P₇C₇P₇P₇, PsC₇PsP±P»PëPIPs PSP°
P_iPsC₇P° C, PeC₇ P»C-PeC₇PIP°PSPSC₇. P_μP°C₇C-C°PSC, P°Pj C-P·
PiC-PrPIPëC%P_μPSPëPj C₇H₅C-PIPSP_μPj P₇H₅P»P₇P₇ C, P°/C₇Pë P₇H₅P»P₇P₇, PsP·PSP°PeP°PjPë
C, P° C₇PëPjPiC, PsPjP°PjPë P_iPsC₇CrC₇PsPSC₇ C, C₇PsPeC₇C-C— P_iP_μC₇C-PSPePë,
P_iP°C₇C-C°PSC, P°Pj C-P· P_iPsPiP_μC₇H₅P_μPrPSCH₅Ps C-C₇PSC₇CrC₇C₇PëPjPë
C₇Cr, P°PSP°PjPë, P_iPsPiP₇™ C₇IP·P°PSPëPjPë P· PsP±PjP_μP₇P_μPSPëPj
C, C₇PsPeC₇C-PsPSP°P»CH₅PSPëPj C₇H₅P_μP·P_μC₇H₅PIPsPj P_iP_μC₇C-PSPePë, P° C, P°PePsP₇
P_iP°C₇C-C°PSC, P°Pj, C₇IPeC- P_iC₇H₅PëP_μPjP°C₇C, CH₅ P_iPsC, P_μPSC₇C-PN₂PSPs
PiP_μPiP° C, PsC, PsPeC₇PëC₇PSC- P_iC₇H₅P_μPiP°C₇P° C, Pë, PsP»P°PSP·P°PiC-PS
P_iC₇H₅PëP·PSP°C₇P°C₇C, CH₅ P· PsP±P_μC₇H₅P_μP₇PSC-C₇Cr, C₇. P_μC₇H₅Pë
PIPëC₇PIP»P_μPSPSC- PiP_μPiP° C, PëC, Cr (PIPeP»C₇H₅C₇P°C₇C₇Pë
PiP_μPiP° C, PsC₇P_μP»C₇H₅P»C₇HC₇PSP_μ, C...PsP»P_μC₇Cr, P° C, PëC₇PSP_μ P°P±Ps
P·PjC-C₇PsP_μ CrC₇H₅P°P₇P_μPSPSC₇ P_iP_μC₇C-PSPePë) PsP»P°PSP·P°PiC-PS
PSP_μPsP±C...C-PrPSPs PIC-PrPjC-PSPëC, Pë.

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

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¶PíC₇C, 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»CÍ
PSP°CíPjPsPrP¶PµPSPSCÍ P·PjC-PSCíPíP°C,PëCÍCÍ P·P° CÍPëP»PsCí C,P°
C,CíPëPíPíP°P»C-CÍC,Cí. PµPsPIC-PrPsPjP»CÍP»Pë PíCíPjPs P°P¶PëC,P°CíC-Cí,
P°CíC,PµCíC-P°P»CHPSCí PiC-PíPµCíC,PµPSP·C-Cí, P°CíC,PµCíC-P°P»CHPSCí
PiC-PíPsC,PµPSP·C-Cí, C,CíPµPjPsCí, CÍPsPSP»PëPIC-CÍC,CH,
CíPµCÍPíC-CíP°P,PsCíPSPëPñ PrPëCÍC,CíPµCÍ-CÍPëPSPíCíPjPs P°P±Ps CíPjPsP·P»P°Pr
C...P°CíC±CíPíP°PSPSCÍ. PýPsPjCí PSPµPsP±C...C-PrPSPs CíPµC,PµP»CHPSPs
PePsPSC,CíPjPsP»CíPíP°P,Pë CÍC,P°PS PSPsPíPSPSP°CíPjPsPrP¶PµPSPëC....

PµPµCíC-PsPr PiPsPrCíPíP°PSPSCÍ PiCíCíPrPrCí

PµCíPë PrPsCÍP»C-PrP¶PµPSPSC- P·PrPsCíPjPsPíPëC... P¶C-PSPsPe, CÍPeC- PiPsPrCíPíP°P»Pë
PiCíCíPrPrCí, PsP»P°PSP·P°PíC-PS P±CíP»Ps PíPëCÍPíP»PµPSPs Cí PiCíCíPrPSPsPjCí
PjPsP»PsCíC-. PýPµCíPµPrPSCÍ PrPsP·P° PrP»CÍ PSPµPjPsPíP»CÍC,Pë (PjPi/PePi) P±Pµ·
CíPëP·PëPeCí PrP»CÍ PSCíPjPsPíPs PsCíC-PSCíPíP°P»P°CíCÍ CÍPe 1,8 %
PjP°P,CµCíPëPSCíCíPëPsC— PrPsP·Pë (PjPi/PePi). PµP°CíC-C”PSC,PeP°Pj
CíPµPePsPjPµPSPíCíC”C,CHCÍCÍ PSPµ PiPsPrCíPíP°P,Pë PSPµPjPsPíP»CÍC, PiCíCíPrPrCí,
CÍPeC%Ps PíPSPPë 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°PeCíC-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°PeCíC-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°CíC-C”PSC,C-PI CÍP»C-Pr
PíPsPíPµCíPµPrPëC,Pë PíCíPjPs PSPµP±PµP·PíPµPeCí, PíPsPíPñ™ CÍP·P°PSCí P·
PµPeCíPíP»CíP°P,P°CíC-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-CēP°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°PICēPë 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 PīPsCḡCḡCēPμPSPSCḡ PSP°CḡC,CḡPsCḡ, CḡPeC%Ps C'' PeP»C-PSC-C±PSP°
PSPμPsP±C...C-PrPSC-CḡC,CH.*

*P>C-PeCžPIP°PSPSCḡ CēPëP·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»CHCēPμPSPSCḡ
CḡPμPePsPjPμPSPPrPsPIP°PSPsC— PīPsC±P°C,PePsPIPsiC— PrPsP·Pë CḡP»C-Pr
PīCḡPsPIPsiPrPëC,Pë P· C-PSC,PμCḡPIP°P»P°PjPë PSPμ PjPμPSCēPμ 24 PīPsPrPëPS
P»PëCēPμ 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
PīCḡPëPNḡPsPjCḡ 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°PIPμCḡCēPμPSPSCḡ 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 PjPμPSCēPsC—
PīPsC±P°C,PePsPIPsiC— PrPsP·Pë (5 PjPi PSP° PrPsP±Cḡ) P·P°P·PIPëC±P°PNḡ PSPμ
PīPsC,CḡC-P±PSPμ. PēPμPsP±C...C-PrPSC-CḡC,CH PīCḡPëP·PSP°C±PμPSPSCḡ
PjPμPSCēPsC— 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. PhPμPSCēCḡ 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° CēPeP°P»PsCḡ PšP°PNḡP»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*

ΠΐΨςC, CΉC-P±PSP°.

PϭCρCΉC-PSPSCΠ PjPsP¶Pμ CΓC, PēPjCρP»CΉPIP°C, Pē PjPμC, P°P±PsP»C-P·Pj PsP»P°PSP·P°ΠC-PSCρ. P PμPePsPjPμPSPρPsPIP°PSPs P·PrC-PNεCΓPSCΉPIP°C, Pē PeP»C-PSC-C±PSPēPNε PjPsPSC-C, PsCΉPēPSPi, C- Cρ CΉP°P·C- PSPμPsP±C...C-PrPSPsCΓC, C-CΓP»C-Pr P·P±C-P»CHC€PēC, Pē PrPsP·Cρ PsP»P°PSP·P°ΠC-PSCρ (PrPēPI. CΉPsP·PrC-P» B«P·P·P°C”PjPsPrC-CΠ P· C-PSC€PēPjPē P»C-PeP°CΉCΓCHPePēPjPē P·P°CΓPsP±P°PjPē C, P° C-PSC€C- PIPēPrPē PIP·P°C”PjPsPrC-PNεB»).

PϭPμPSC€Cρ ΠΐΨςC±P°C, PePsPICρ PrPsP·Cρ PjPsP¶PSP° ΠCΉPēP·PSP°C±P°C, Pē ΠP°C†C-C”PSC, P°Pj P· PePsPjP±C-PSP°C†C-C”CΉ C,, P°PeC, PsCΉC-PI (P¶C-PSPsC±P° CΓC, P°C, CH, P»C-C, PSC-PNε PIC-Pe, PIC-PrCΓCρC, PSC-CΓC, CH P·PIPēC±PePē PrPs ΠP°P»C-PSPSCΠ), CΠPeC- PjPsP¶CρC, CH P·PSPēP¶CρPIP°C, Pē PjPμC, P°P±PsP»C-P·Pj PsP»P°PSP·P°ΠC-PSCρ. PμC-PrPIPēC%PμPSPSCΠ PrPsP·Pē C, P°PePēPj ΠP°C†C-C”PSC, P°Pj, CΠPeC%Ps C†Pμ ΠΐΨςPeP°P·P°PSPs, ΠΐΨςC, CΉC-P±PSPs P·PrC-PNεCΓPSCΉPIP°C, Pē ΠΐΨςCΓC, CρΠΐΨςPIs, P· PsP±PμCΉPμP¶PSC-CΓC, CΉ (PrPēPI. CΉPsP·PrC-P»Pē B«P·P·P°C”PjPsPrC-CΠ P· C-PSC€PēPjPē P»C-PeP°CΉCΓCHPePēPjPē P·P°CΓPsP±P°PjPē C, P° C-PSC€C- PIPēPrPē PIP·P°C”PjPsPrC-PNεB» C, P° B«PαP°CΉPjP°PePsP»PsPiC-C±PSC- PIP»P°CΓC, PēPIPsCΓC, C-B»).

P”C-C, Pē.

P—P°CΓC, PsCΓCρPIP°PSPSCΠ PsP»P°PSP·P°ΠC-PSCρ PrC-C, CΠPj C, P° ΠC-PrP»C-C, PeP°Pj (PIC-PePsPj PrPs 18 CΉPsPeC-PI) PSPμ CΉPμPePsPjPμPSPρPsPIP°PSPμ Cρ P·PIBΉ™ CΠP·PeCρ P· PSPμPrPsCΓC, P°C, PSC-CΓC, CΉ PrP°PSPēC... P· P±PμP·ΠPμPePē C, P° PμC,, PμPeC, PēPIPsPsCΓC, C-. Pj C...PsPrC- PePsCΉPsC, PePsCΓC, CΉPsPePsPIPēC... PrPsCΓP»C-PrP¶PμPSCΉ Cρ ΠP°C†C-C”PSC, C-PI ΠC-PrP»C-C, PePsPIPsPiPs PIC-PeCρ PIC-PrP·PSP°C±P°P»PsCΓCΠ P·P±C-P»CHC€PμPSPSCΠ PjP°CΓPē C, C-P»P°, P·PjC-PSPē CΉC-PIPsC-PI ΠCΉPsP»P°PeC, PēPSCρ C, P° P»C-ΠC-PrC-PI ΠΐΨςCΉC-PIPsCΠPSPs P· PrPsCΉPsCΓP»PēPjPē (PrPēPI. CΉPsP·PrC-P»Pē B«PϭCΓPsP±P»PēPIPsCΓC, C- P·P°CΓC, PsCΓCρPIP°PSPSCΠB», B«PμPsP±C-C±PSC- CΉPμP°PeC†C-C—B» C, P° B«PαP°CΉPjP°PePsP»PsPiC-C±PSC- PIP»P°CΓC, PēPIPsCΓC, C-B»).

PμPμCΉPμPrPsP·CζPIP°PSPSCΠ.

PŸPēPjΠC, PsPjPē. P”CρP¶Pμ ΠΐΨςC€PēCΉPμPSC- (> 10 % PIPēΠP°PrPeC-PI) BΉ” C, P°C...C-PeP°CΉPrC-CΠ, P°P¶PēC, P°C†C-CΠ / P°ΠCΉPμCΓPēPIPsC-CΓC, CH, PrPēP·P°CΉC, CΉC-CΠ, CΉC-P·PSC- PμPeCΓC, CΉP°ΠC-CΉP°PjC-PrPSC- CΓPēPjΠC, PsPjPē C, P° P·PSPēP¶PμPSPēPNε CΉC-PIPsPSCΉ CΓPIC-PrPsPjPsCΓC, C-, C%Ps PIP°CΉC-CΉC”C, CHCΓCΠ PIC-Pr CΓPμPrP°C†C-C— PrPs PePsPjPē.

P†PSC€PēPjPē P·PSP°C±PSPēPjPē CρCΓPeP»P°PrPSPμPSPSCΠPjPē ΠPμCΉPμPrPsP·CρPIP°PSPSCΠ C” PrPμP»C-CΉC-PNε, CΓCρPrPsPjPē, PePsPjP°, PjPsP¶P»PēPIC-CΓC, CH CΉPsP·PIPēC, PeCρ PSPμPNεCΉPsP»PμΠC, PēC±PSPsPiPs P·P»PsCΠPeC-CΓPSPsPiPs CΓPēPSPρCΉPsPjCρ, ΠCΉPēPIPsC-C±PμPSPSCΠ PrPēC...P°PSPSCΠ, P°CΓΠC-CΉP°C†C-CΠ, P°CΉC, PμCΉC-P°P»CHPSP° ΠC-ΠPμCΉC, PμPSP·C-CΠ P°P±Ps ΠC-ΠΐΨςC, PμPSP·C-CΠ, CΓPμCΉC†PμPIP° P°CΉPēC, PjC-CΠ (< 2 % PIPēΠP°PrPeC-PI ΠPμCΉPμPrPsP·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‡PëPSCḡCḡC,CHb P±P»CHbPIP°PSPSCḡ. P PμPePsPjPμPSPPrPsPIP°PSPs
CfC,P°PSPPr°CḡC,PSC- PĩCḡPsC†PμPrCfCḡPë PĩCḡPë PĩPμCḡPμPrPsP·CfPIP°PSPSC-
(PSP°PĩCḡPëPeP»P°Pr PĩCḡPsPjPëPIP°PSPSCḡ CēP»CfPSPeP°, 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" 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¶PμPSCḡ, P±CfP»Pë C,P°PeC-:
CfPsPSP»PëPIC-CfC,CHb, P·P±C-P»CHbCēPμPSPSCḡ PjP°CfPë C,C-P»P°,
PμPsP·PëPSPsC,,C-P»C-Cḡ, PĩC-PrPIPëC%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. CḡPsP·PrC–P»
 B«PhCḡPsP±P»PēPIPsCḡC,C– P·P°CḡC,PsCḡCḡPIP°PSPSCЦB»), PrPēCḡPeC–PSPμP·C–CЦ,
 PsCḡC,PsCḡC,P°C,PēC±PSP° PiC–PīPsC,PμPSP·C–CЦ,
 P°PSC,PēC...PsP»C–PSPμCḡPiC–C±PSC– PμC,,PμPeC,Pē, C,CḡP°PSP·PēC,PsCḡPSPμ
 P°CḡPēPjPiC,PsPjP°C,PēC±PSPμ PiC–PrPIPēC%PμPSPSCЦ CḡC–PIPSC–PI
 PīPμC±C–PSPePsPIPēC... C,CḡP°PSCḡP°PjC–PSP°P· (PrPēPI. CḡPsP·PrC–P»
 B«PhCḡPsP±P»PēPIPsCḡC,C– P·P°CḡC,PsCḡCḡPIP°PSPSCЦB»), PIPēCḡPēPīP°PSPSCЦ,
 P°CḡC,PμPSC–CЦ, CḡC,PsPjP»CḡPIP°PSC–CḡC,CH, PiC–PīPμCḡC,PμCḡPjC–CЦ,
 P°CḡC,CḡP°P»PiC–CЦ, PiC–PrPIPēC%PμPSPSCЦ CḡC–PIPSCЦ
 P°P»PeP°P»C–PSC,,PsCḡC,,P°C,P°P·Pē, PiP°PjPjP°PiP»CḡC,P°PjC–P»C,CḡP°PSCḡC,,PμCḡP°P·Pē,
 CḡPμC±PsPIPsC— PePēCḡP»PsC,Pē, PeCḡPμP°C,PēPSC,,PsCḡC,,PsPeC–PSP°P·Pē C,P°
 PSP°P±CḡCЦPePē.

PḡP°P±P»PēC±PSPēPNε PiPμCḡPμP»C–Pe PiPsP±C–C±PSPēC... CḡPμP°PeCḡC–PNε

PJ C,P°P±P»PēCḡC– 1 PiC–PrCḡCḡPjPsPIP°PSPs PsCḡPSPsPIPSC– PīPsP±C–C±PSC–
 CḡPμP°PeCḡC–C— C,P° C—C...PSCЦ C±P°CḡC,PsC,P°, PIPēP·PSP°C±PμPSC– Cḡ C...PsPrC–
 PeP»C–PSC–C±PSPēC... PrPsCḡP»C–PrP¶PμPSCH C,P°/P°P±Ps PSP° PsCḡPSPsPIC–
 PīPsCḡC,PjP°CḡPePμC,PēPSPiPsPIPsPiPs PrPsCḡPIC–PrCḡ.

P”CḡP¶Pμ C±P°CḡC,Ps (≥ 1/10), C±P°CḡC,Ps (≥ 1/100 C,P° < 1/10), PSPμC±P°CḡC,Ps (≥
 1/1000 C,P° < 1/100), CḡC–PrPePs (≥ 1/10000 C,P°B < 1/1000), PrCḡP¶Pμ CḡC–PrPePs (<
 1/10000), C±P°CḡC,PsC,P° PSPμPIC–PrPsPjP° (C±P°CḡC,PsC,Cḡ PSPμ PjPsP¶PSP°
 PICḡC,P°PSPsPIPēC,Pē PSP° PsCḡPSPsPIC– PSP°CЦIPSPēC... PrP°PSPēC...).

PḡP°P±P»PēCḡCЦ 1

P·CḡP¶Pμ C±P°CḡC,Ps	PSḡ°CḡC,Ps	PePμC±P°CḡC,Ps	P·C–PrPePs	PSḡ°CḡC,PsC,P° PSμPIC–PrPsPjP°
P— P±PsPeCḡ CḡPēCḡC,PμPjPē PeCḡPsPIPsC,PIPsCḡPμPSPSCЦ C,P° P·C·PjC,,P°C,PeC±PSPsC— CḡPēCḡC,PμPjPē				
	P·PsP·PePSPsC,C–P·C–CЦ, P·PμPNεPePsPIPsPSC–CЦ ¹ , PSPμPWC,CḡPsPIPsPSC–CЦ ¹⁰		PḡCḡPsPjP±PsCḡPēC,PsPIPsPSC–CЦ ¹¹	
P— P±PsPeCḡ C–PjCḡPSPSPsC— CḡPēCḡC,PμPjPē				
		P°C–PIPsCḡCḡC,C,P°PePIC–CḡC,CH ¹¹		
PμPsCḡCḡCḡPμPSPSCЦ PsP±PjC–PSCḡ CḡPμC±PsPIPsC,C,P° CḡPsP·P·P°PrPē C,CḡP°PjP°PμPSPSCЦ				
P— P±C–P·CHCḡPμPSPSCЦ PjP°CḡPē C,C–P·P° ¹	PμC–PrPIPēC%PμPSPSCЦ CḡC–PIPSCЦ C...PsP·PμCḡC,PμCḡPēPSCḡ ¹² , PiC–PrPIPēC%PμPSPSCЦ CḡC–PIPSCЦ PIP°CHPePsP·Pē ¹ , PiC–PrPIPēC%PμPSPSCЦ CḡC–PIPSCЦ C,CḡPēPμC–CḡPμCḡPēPrC–P ¹³ , PIP°CHPePsP·CḡCḡC–CЦ, PiC–PrPIPēC%PμPSPSCЦ P°PμC,PēC,Cḡ	P PsP·PIPēC,PsPe P°P±Ps PIPsPIC–CḡCḡPμPSPSCЦ PIPsCḡPμP±C–PICḡ PrC–P°P±PμC,Cḡ, CḡC–PrPePs PIP°PjPḡ ¹¹ CЦP·P°PSPsPiPs P PePjC,PsCḡCḡPēPrPsP·PsPj P°P±Ps PePsPjPsCH, PIPēP·CHCḡP°CHCḡPē PrPμCḡPēC P·PμC,P°P·CHPSC– PIPēPjP°PrPePē (PrPēPI CḡPsP·PrC–P·B«PhCḡPsP±P·PēPIPsCḡC,C– P·P°CḡC,PsCḡCḡPjP°PSPSCЦB») ¹¹	P°C–PIPsC,PμCḡPjC–CЦ ¹²	
P— P±PsPeCḡ PSPμCḡPIPsPIPsC— CḡPēCḡC,PμPjPē				
PḡPSPSP·PePIC–CḡC,CH	P— P°PḡPḡPjPsCḡPμPSPSCЦ, P°PeP°C,PeP·C–CЦ ¹ , PIP°CḡPēC–PSCḡPSC–P·Pj ¹ , PrPeCḡPēC–PSPμP·C–CЦ ¹⁶	P·PIC–P·PμPIC,PeCḡPSC– PSP°PjP°PrPe, C%Ps P±CḡP·Pē PI P°PSP°PjPSPμP·C– P°P±Ps P±CḡP·Pē PSP°CḡPIPSC– C,P°PeC,PsCḡPē CḡPēP·PēPeCḡ ¹¹ , PrPeCḡC,PsPSC–CЦ (PIP°P·CHCḡPSPs P· PsPeCḡP·CḡCḡPSPēPj CḡPēPjPiC,PsPjPsPj) ¹¹ , PiC–P·PSCЦ PrPēCḡPēC–PSPμP·C–CЦ ¹¹ , P°PjPSPμP·C–CЦ ¹ , PrPēP·P°CḡC,CḡC–CЦ, P·P°C—PeP°PSPSCЦ ¹¹ , CḡPēPSPḡCḡPj PiC,PsPjP·PμPSPēC... PSC–P ¹¹	P°PμPSC,CḡPēPeCḡP·CḡCḡPSP° C,P°C...C–PeP°CḡPrC–CЦ,C–P±CḡPēP·CḡCḡC–CЦ, CḡP°PIC,PsPjP° CḡPjPμCḡC,CH B (PrPēPI. CḡPsP·PrC–P· B«PhCḡPsP±P·PēPIPsCḡC,C– P·P°CḡC,PsCḡCḡPjP°PSPSCЦB») ¹¹	
P— P±PsPeCḡ CḡPēCḡC,PμPjPē PrPēC...P°PSPSCЦ, PsCḡPIP°PSC–PI PICḡCḡPrPSPsC— PeP·C–C,PePē C,P° CḡPμCḡPμPrPsCḡC,C–PSPSCЦ				
		PμCḡPsPIPsC,PμCḡP·P·PSPSḡP° ¹³		
P— P±PsPeCḡ CḡPμCḡCḡPμPIPsC— CḡPēCḡC,PμPjPē				
		P·CḡP·PrPePeP°CḡPrC–CЦ, PICḡPsP·PsPSPiP°CḡC–CЦ C–PSC,PμCḡPIP°P·CḡQT, (PrPēPI. CḡPsP·PrC–P· B«PhCḡPsP±P·PēPIPsCḡC,C– P·P°CḡC,PsCḡCḡPjP°PSPSCЦB») ¹¹	P°PμPSC,CḡPēPeCḡP·CḡCḡPSP° C,P°C...C–PeP°CḡPrC–CЦ,C–P±CḡPēP·CḡCḡC–CЦ, CḡP°PIC,PsPjP° CḡPjPμCḡC,CH B (PrPēPI. CḡPsP·PrC–P· B«PhCḡPsP±P·PēPIPsCḡC,C– P·P°CḡC,PsCḡCḡPjP°PSPSCЦB») ¹¹	
P— P±PsPeCḡ CḡCḡPrPēPSPSPsC— CḡPēCḡC,PμPjPē				
PhCḡC,PsCḡC,P°C,PeCḡPSP° PIC–PIPsC,PμPSP·C–CЦ ¹⁰		PḡCḡPsPjP±PsPμPjP±PsP·C–CЦ (PIP°P·CHCḡP°CHCḡPē PμPjP±PsP·C–Cḡ P·PμPIPsPSPμPIPsC— P°CḡC,PμCḡC–C– C,P° PIP°PēP±PsPePēPμ PIPμPSPsP·PSPēPμ C,CḡPsPjP±PsP·) (PrPēPI. CḡPsP·PrC–P· B«PhCḡPsP±P·PēPIPsCḡC,C– P·P°CḡC,PsCḡCḡPjP°PSPSCЦB») ¹¹		
P— P±PsPeCḡ CḡP·CḡPSPePsPIPs–PePēCḡPePsPIPsPiC,CḡP°PeC,Cḡ				
	P·PμPIPeC– PePsCḡPsC,PePsC,CḡPePIP°P·C– P°PSC,PeC,,PsP·C–PSPμCḡPiC–CḡPSC– PμC,,PμPeC,Pē, PIP°P·CHCḡP°CHCḡPē P·P°PIPsCḡPē C,P° CḡCḡC...C–CḡC,CH Cḡ CḡPsC,C–	P— PrCḡC,C,CЦ P°PēPIPsC,P° ¹³ , PiC–PIPsCḡCḡPμPeCḡPμCḡC–CЦ CḡP°PēPSPē ¹¹	PμP°PSPeCḡPμP°C,PeC,Pe ¹¹	
P— P±PsPeCḡ PIPμPIP°C,PsP±C–P·C–P°CḡPSPsC— CḡPēCḡC,PμPjPē				
	PḡCḡP°PSP·PeC,PsCḡPSC– P°CḡPēPjPiC,PsPjP°C,PēCḡPSC– PiC–PrPμPjPjPē CḡC–PIPSCЦ PIPμCḡC–PSPePsPIPsC... C,CḡP°PSCḡPjC–PSP°P· (PhP·PhPj C,P° PhCḡPhPj), PSCḡPsP±P·PēPIPs PSP° PIPsCḡP°C,PeCḡ P·C–PeCḡPjP°PSPSCЦ (PrPēPI. CḡPsP·PrC–P· B«PhCḡPsP±P·PēPIPsCḡC,C– P·P°CḡC,PsCḡCḡPjP°PSPSCЦB») ¹¹		P°PμPIP°C,PeC,Pe (PIP°P·CHCḡP°CHCḡPē PIPμPIP°C,PsCḡPμP·CHP·CḡCḡPSPμ C...PsP·PμCḡC,P°C,PeCḡPSPμ P°P±Ps P·PjC–CḡP°PSPμ CḡCḡPePsPjPμPSPSCЦ PIPsCḡC–PSPePē) ¹¹	
P— P±PsPeCḡ CḡPeC–CḡPē 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 PI P°PSP°PjPSPµP·C- PİPsCİC, CĤPëC... P°P±Ps PİC-P·PSC-C... PµPeCİC, CĤP°PİC-CĤP°PjC-PrP°P»CHbPSPëC... CĤCıC...PsPIPëC... PİPsCĤCıCëPµPSCH PSPµ PjPsP¶PSP° PICİC, P°PSPsPIPëC, Pë, C%oPs PsP»P°PSP·P°PİC-PS PjPµPSCëPµ CİPİCĤPëC†PëPSCİC” PİC-P·PSCĤ PrPëCİPeC-PSPµP·C-CĤ C, P°/P°P±Ps C-PSCëC- 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»CHbCëPsCİC, C- PİP°C†C-C”PSC, C-PI C, P°PePµ PİC-PrPIPëC%oPµPSPSCİ P±CıP»Ps PİPsPjC-CĤPSPëPj C- P·P°P»PëCëP°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 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 $P_{\mu}P_sP_{\pm}C-C\ddagger PSC- C\tilde{H}P_{\mu}P^{\circ}PeC\ddagger C-C- PIP\ddot{e}P\cdot PSP^{\circ}C\ddagger P_{\mu}PSP_s P\cdot C- C\acute{I}P\ddot{i}PsPSC, P^{\circ}PSPSP\ddot{e}C...$
 $P\ddot{i}PsC\acute{I}C, PjP^{\circ}C\tilde{H}PeP_{\mu}C, P\ddot{e}PSP\ddot{i}PsPIP\ddot{e}C...$ $P\cdot PIC-C, C-PI P\cdot P\ddot{i}P_{\mu}C\tilde{H}C-PsPrP\ddot{e}C\ddagger PSC-C\acute{I}C, C\tilde{H}, C\%_{\circ}Ps$
 $PsC\ddagger C-PSP_{\mu}PSP^{\circ} P\cdot PIP\ddot{e}PePsC\tilde{H}P\ddot{e}C\acute{I}C, P^{\circ}PSPSC\ddot{I}Pj PrPsPIC-C\tilde{H}C\ddagger PsPiPs C-PSC, P_{\mu}C\tilde{H}PIP^{\circ}P\rangle C\acute{r} PI$
 $PIP_{\mu}C\tilde{H}C...PSC\tilde{H}PsPjC\acute{r} P\rangle C-PjC-C, C- PSPSC\tilde{H}PjP\ddot{e} (95 \%) PsC\acute{I}PSPsPIC-$
 $C-PSC, P_{\mu}PiC\tilde{H}PsPIP^{\circ}PSP_sC- P\pm P^{\circ}P\cdot P\ddot{e} PrP^{\circ}PSP\ddot{e}C... PsP\rangle P^{\circ}PSP\cdot P^{\circ}PiC-PSC\acute{r}.$

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

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

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

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

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

($\geq 10\%$) 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-SPSPj C₇ PePsPjP±C-PSP°C₇C-C— P·P»C-C, C-C”Pj P°P±Ps PrPëPIP°P»PiC₇H₁₄PsP₂PeC₇PsPj C₇ PiPsC₇C, P₂C₇H₁₄-PiP°P»PsC₇C₇B P·P±C-P»CH₃CEP₂SPSC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P° $\geq 7\%$ B P₇P₇PyB (C-SPPrP₂PeC₇C₇ PjP°C₇H₁₄Pë C, C-P»P°) C₇ 17,4 % PiP°C₇C-C”PSC, C-PI PiC-Pr C₇P°C₇ C-PSC, P₂SPSC₇H₁₄PIPSPsC— C, P₂C₇H₁₄P°PiC-C— (PrPs 6 C, PëP₇SPSC-PI). P”PsPIPiPsC, C₇H₁₄PëPIP°P»P₂ P»C-PeC₇PIP°PSPSC₇H₁₄ PsP»P°PSP·P°PiC-SPSPj (PrPs 12 C, PëP₇SPSC-PI) PrP»C₇ PiPsPiP₂C₇H₁₄PrP₇P₂SPSC₇H₁₄ C₇H₁₄P₂C₇PëPrPëPIC-PI C₇ PiP°C₇C-C”PSC, C-PI C-P·P±C-PiPsP»C₇H₁₄SPSPëPjPë C₇H₁₄PsP·P»P°PrP°PjPë P±C₇P»Ps PiPsPiB₇™ C₇H₁₄P·P°PSPs P·PiC-PrPIPëC%P₂SPSC₇H₁₄Pj PjP°C₇H₁₄Pë C, C-P»P° $\geq 7\%$ P₇P₇Py C₇ 39,9 % PiP°C₇C-C”PSC, C-PI.

P”C-C, Pë.

P₇H»P°PSP·P°PiC-PS PSP₂ PiPsPeP°P·P°PSPëP₂ PrP»C₇ P»C-PeC₇PIP°PSPSC₇H₁₄ PrC-C, P₂PN₂ C, P° PiC-PrP»C-C, PeC-PI (PIC-PePsPj PrPs 18 C₇H₁₄PsPeC-PI). P₇H»P»C-PSC-C₇SPSC- PrPsC₇P»C-PrP₇P₂SPSC₇H₁₄, C₇H₁₄PeC- PiPsC₇H₁₄-PIPSC₇H₁₄PIP°P»Pë P·P°C₇C, PsC₇C₇PIP°PSPSC₇H₁₄ PsP»P°PSP·P°PiC-SPSC₇ C₇ PiC-PrP»C-C, PeC-PI C, P° PrPsC₇H₁₄PsC₇P»PëC..., PSP₂ PiC₇H₁₄PsPiPsPrPëP»PëC₇CH₃.

P₇KëP₇C₇P₂ PIPeP°P·P°PSC- PiPsP±C-C₇SPSC- C₇H₁₄P₂P°PeC₇C-C—, C%Ps PIPëPSPëPeP°CH₃, CH₃ C₇P°C₇C, C-CEP₂ C₇ PiC-PrP»C-C, PeC-PI (PIC-PePsPj PIC-Pr 13-17 C₇H₁₄PsPeC-PI), PSC-P₇ C₇ PrPsC₇H₁₄PsC₇P»PëC..., P°P±Ps PiPsP±C-C₇SPSC- C₇H₁₄P₂P°PeC₇C-C—, C%Ps P±C₇P»Pë PIPëC₇PIP»P₂SPSC- C, C-P»CH₃PePë PiC-Pr C₇P°C₇ PePsC₇H₁₄PsC, PePsC, C₇H₁₄PëPIP°P»PëC... PeP»C-PSC-C₇SPSC... PrPsC₇P»C-PrP₇P₂SPSC₇H₁₄ C₇ PiC-PrP»C-C, PeC-PI. P₇H»P»C-PSC-C₇SPSPs P·PSP°C₇C₇%P₂ P·P±C-P»CH₃CEP₂SPSC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P° ($\geq 7\%$) C₇P°C₇C, C-CEP₂ C₇ PiPsC₇C, P₂C₇H₁₄-PiP°P»PsC₇CH₃ C₇ PiC-PrP»C-C, PeC-PI PiPsC₇H₁₄-PIPSC₇H₁₄SPSPs P·PrPsC₇H₁₄PsC₇P»PëPjPë. P₂C-Pr C₇P°C₇ PrPsPIPiPsC, C₇H₁₄PëPIP°P»PsPiPs P»C-PeC₇PIP°PSPSC₇H₁₄ (PSP₂ PjP₂SPSC₇H₁₄ 24 C, PëP₇SPSC-PI) PeP»C-PSC-C₇SPSPs P·PSP°C₇C₇%P₂ P·P±C-P»CH₃CEP₂SPSC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P° P±C₇P»Ps PIPëC%PëPj, PSC-P₇ PiC-Pr C₇P°C₇ PePsC₇H₁₄PsC, PePsC, C₇H₁₄PëPIP°P»PsPiPs P»C-PeC₇PIP°PSPSC₇H₁₄.

P₇S°C₇C, PsC, C₇ PiPsP±C-C₇SPSC... C₇H₁₄P₂P°PeC₇C-PM₂, P·P°P·PSP°C₇P₂SPSC... PSPëP₇C₇P₂, PIPëP·PSP°C₇P°CH₃, CH₃ C, P°PePëPj C₇PëPSPSPj: PrC₇P₇P₂ C₇P°C₇C, Ps ($\geq 1/10$), C₇P°C₇C, Ps ($\geq 1/100 - < 1/10$).

P₂PsC₇H₁₄C₇CEP₂SPSC₇H₁₄ PsP±PjC-PSC₇ C₇H₁₄P₂C₇PsPIPëPS C, P° C₇H₁₄PsP·P»P°PrPë C...P°C₇C₇C₇PIP°PSPSC₇H₁₄.

P”C₇P₇P₂ C₇P°C₇C, Ps: P·P±C-P»CH₃CEP₂SPSC₇H₁₄ PjP°C₇H₁₄Pë C, C-P»P°¹³, PiC-PrPIPëC%P₂SPSC₇H₁₄ C₇H₁₄-PIPSC₇H₁₄ C, C₇H₁₄PëPiP»C-C₇P₂C₇H₁₄PëPrC-PI¹⁴, PiC-PrPIPëC%P₂SPSC₇H₁₄ P°PiP₂C, PëC, C₇.

P₇S°C₇C, Ps: PiC-PrPIPëC%P₂SPSC₇H₁₄ C₇H₁₄-PIPSC₇H₁₄ C...PsP»P₂C₇C, P₂C₇H₁₄PëPSC₇H₁₄¹⁵.

P— P±PsPeC₇ PSP₂C₇PIPSPiPsC— C₇PëC₇C, P₂PjPë.

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

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

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

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

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

P"PsCfP»C-PrP¶PµPSPSCf.

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

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

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

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

PJPjPsPIPē P·P±PμCḡC-PiP°PSPSCЦ.

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

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

PJPīP°PePsPIPeP°.

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

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

P’PēCḡPsP±PSPēPe.

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

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

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