

$P''P^{\circ}PSC - \bar{P}iC\bar{H}Ps \text{ } \bar{P}i\bar{P}\bar{e}P\bar{P}i\bar{P}^{\circ}PSC - C\bar{f}C,CH \text{ } P \pm P_{\mu}P \cdot \bar{P}iC\bar{H}Ps\bar{P}iC\bar{H}P_{\mu}C\bar{f}C\bar{f}P\bar{P}^{\circ}PSPSC\bar{P}$
 $P \cdot P^{\circ}C \dots \bar{P}iPsC\bar{H}C\bar{H}P\bar{P}^{\circ}PSPSC\bar{P} \text{ } C, P^{\circ} \text{ } P \cdot P^{\circ}P\bar{P}^{\circ}P \gg CH\bar{P}SC\bar{f} \text{ } \bar{P}i\bar{P}\bar{e}P\bar{P}i\bar{P}^{\circ}PSC - C\bar{f}C,CH,$
 $P \cdot P^{\circ}C\bar{f}PSPs\bar{P}i\bar{P}^{\circ}PSC - PSP^{\circ} \text{ } P^{\circ}PSP^{\circ}P \gg C \cdot P \cdot C - P_jP_{\mu}C, PsPrPsP_j \text{ } P_{\bar{L}}P^{\circ}P\bar{P}i \gg P^{\circ}PSP^{\circ} \text{ } B\bar{H} \text{ } P_{\bar{H}}P_{\mu}P_{N\bar{C}}C''C\bar{H}P^{\circ},$
 $C\bar{f} \text{ } \bar{P}iP^{\circ}C\bar{f}C - C''PSC, C - PI \text{ } P \cdot P_jC - C\bar{f}C\bar{f}P_{\mu}P\bar{P}iPs - C\bar{H}PsP \cdot \bar{P}iPsPIC\bar{f}C\bar{H}PrP\bar{P}iP_{\mu}PSP\bar{e}P_j \text{ } C\bar{H}P^{\circ}PePsP_j$

PJ PĪP°C†C-C" PSC,C-PI P· P»PsPeP°P»C-P·PsPIP°PSPëPj P·P°C...PIPsCĤCĤPIP°PSPSCĬPj, CĬPeC-PsC,CĤPëPjCfPIP°P»Pë C,C-P»CHPePë PĤP°CĬPsPrPμPeCĬ, PrPsCĬC,PsPIC-CĤPSPsC—CĤC-P·PSPëC†C- Cf PIPëP¶PëPIP°PSPsCĬC,C- P±PμP· PĭCĤPsPĭCĤPμCĬCfPIP°PSPSCĬ PĭCfC...P»PëPSPSPsPiPs PĭCĤPsC†PμCĬCf PSPμPjP°C". PÿP°PePsP¶ Cf PĭP°C†C-C" PSC,C-PI P·

$P \gg PsPeP^{\circ}P \gg C - P \cdot PsPIP^{\circ}PSP\ddot{e}Pj \cdot P^{\circ}C \dots PIPsC\check{H}C\check{H}PIP^{\circ}PSPSC\check{U}Pj$, $C\check{U}PeC - PsC, C\check{H}P\ddot{e}PjC\acute{r}PIP^{\circ}P \gg \ddot{e}$
 $P\check{L}P^{\circ}C\acute{r}PsPrP\mu PeC\acute{r} C\check{U}Pe P^{\circ}Pr\check{B}\check{H}^{\text{TM}} C\check{H}PIP^{\circ}PSC, PSC\acute{r} C, P\mu C\check{H}P^{\circ}P\check{I}C - C\check{H} P\check{I}C - C\acute{r}P \gg C\check{U}$
 $C\check{H}P^{\circ}PrC - PsC, P\mu C\check{H}P^{\circ}P\check{I}C - C - (PhP \ 0,98; 95 \% P''P\ddagger 0,80\check{B}\check{H}^{\text{TM}} 1,20) P^{\circ}P \pm Ps$
 $C\check{H}P^{\circ}PrP\ddot{e}PeP^{\circ}P \gg CH\check{H}PSPsC - P\check{I}C\check{H}PsC\acute{r}C, P^{\circ}C, P\mu PeC, PsPjC - C - (PhP \ 1,03; 95 \% P''P\ddagger 0,85\check{B}\check{H}^{\text{TM}} 1,25),$
 $PrPsC\acute{r}C, PsPIC - C\check{H}PSPsC - PIC - PrPjC - PSPSPsC\acute{r}C, C - PI P \cdot P^{\circ}P\check{I}P^{\circ}P \gg CH\check{H}PSC - PN_{\check{e}}$
 $PIP\ddot{e}P\check{I}P\ddot{e}PIP^{\circ}PSPsC\acute{r}C, C - PSP\mu PIC - PrP \cdot PSP^{\circ}C\ddagger P\mu PSPs. Pj P\check{I}P^{\circ}C\ddagger C - C''PSC, C - PI P \cdot$
 $P \gg PsPeP^{\circ}P \gg C - P \cdot PsPIP^{\circ}PSP\ddot{e}Pj \cdot P^{\circ}C \dots PIPsC\check{H}C\check{H}PIP^{\circ}PSPSC\check{U}Pj$, $PrPs C\check{U}PeP\ddot{e}C \dots PI C - PSC\epsilon PsPjC\acute{r}$
 $PIP\ddot{e}P\check{I}P^{\circ}PrPeC\acute{r} P \cdot P^{\circ}C\acute{r}C, PsC\acute{r}C\acute{r}PIP^{\circ}P \gg \ddot{e} P \pm C, P^{\circ}PeC, P\ddot{e}PeC\acute{r} PrP\ddot{e}PSP^{\circ}PjC - C\ddagger PSPsPiPs$
 $C\acute{r}PiPsC\acute{r}C, P\mu C\check{H}P\mu P\check{I}P\mu PSPSC\check{U}, C, P^{\circ}PePsP\check{I} P \cdot P \pm P\mu C\check{H}C - P\check{I}P^{\circ}C''C, CH\check{H}C\acute{r}C\check{U}$
 $C, P\mu PSPPrP\mu PSC\ddagger C - C\check{U} PrPs P \cdot PSP\ddot{e}P\check{I}P\mu PSPSC\check{U} C\check{H}C - PIPSC\check{U} PIP\ddot{e}P\check{I}P\ddot{e}PIP^{\circ}PSPsC\acute{r}C, C - C\acute{r}$
 $P\check{I}PsC\check{H}C - PIPSC\check{U}PSPSC - P \cdot P\check{I}P^{\circ}C\ddagger C - C''PSC, P^{\circ}PjP\ddot{e}, C\check{U}PeC - PsC, C\check{H}P\ddot{e}PjC\acute{r}PIP^{\circ}P \gg \ddot{e}$
 $P\check{I}P \gg P^{\circ}C\ddagger P\mu P \pm Ps (PhP \ 1,15; 95 \% P''P\ddagger 1,00\check{B}\check{H}^{\text{TM}} 1,32). P - C\acute{r}C\check{H}P^{\circ}C \dots C\acute{r}PIP^{\circ}PSPSC\check{U}Pj$
 $C\acute{r}P\check{I}C - PIPIC - PrPSPsC\epsilon P\mu PSPSC\check{U} PePsC\check{H}P\ddot{e}C\acute{r}C, CH\check{H}/C\check{H}P\ddot{e}P \cdot P\ddot{e}Pe P \cdot P^{\circ}C\acute{r}C, PsC\acute{r}C\acute{r}PIP^{\circ}PSPSC\check{U}$
 $P\check{I}C\check{H}P\mu P\check{I}P^{\circ}C\check{H}P^{\circ}C, C\acute{r} P\check{L}P^{\circ}C\acute{r}PsPrP\mu PeC\acute{r} P\check{I}P^{\circ}C\ddagger C - C''PSC, P^{\circ}Pj P \cdot P \gg PsPeP^{\circ}P \gg C - P \cdot PsPIP^{\circ}PSP\ddot{e}Pj$
 $P \cdot P^{\circ}C \dots PIPsC\check{H}C\check{H}PIP^{\circ}PSPSC\check{U}Pj PSP\mu PIP\check{I}P^{\circ}P\check{I}P^{\circ}C''C, CH\check{H}C\acute{r}C\check{U} PrPsC\ddagger C - P \gg CH\check{H}PSP\ddot{e}Pj.$

$P' C - PSC\epsilon C - PN_{\check{e}} P\check{I}C\check{H}PsPiC\check{H}P^{\circ}PjC - P\mu C, P\mu PeC, P\ddot{e}PIPSC - C\acute{r}C, CH\check{H} P\check{I}C\check{H}P\mu P\check{I}P^{\circ}C\check{H}P^{\circ}C, C\acute{r}$
 $P\check{L}P^{\circ}C\acute{r}PsPrP\mu PeC\acute{r} 150 PjPi PrP \gg C\check{U} P \gg C - PeC\acute{r}PIP^{\circ}PSPSC\check{U} P\check{I}P^{\circ}C\ddagger C - C''PSC, C - PI P \cdot$
 $PjC - C\acute{r}C\ddagger P\mu PIPs - C\check{H}PsP \cdot P\check{I}PsPIC\acute{r}C\check{H}PrP\check{I}P\mu PSP\ddot{e}Pj C\check{H}P^{\circ}PePsPj$
 $P\check{I}P\mu C\check{H}P\mu PrPjC - C \dots C\acute{r}C\check{H}PsPIPsC - P \cdot P^{\circ}P \gg PsP \cdot P\ddot{e} P \pm P\mu P \cdot PjP\mu C, P^{\circ}C\acute{r}C, P^{\circ}P \cdot C\acute{r}PIP^{\circ}PSPSC\check{U},$
 $C\check{U}PeP\ddot{e}Pj P \pm C\acute{r}P \gg P^{\circ} P\check{I}PsPeP^{\circ}P \cdot P^{\circ}PSP^{\circ} PSP\mu P\check{I}P^{\circ}PN_{\check{e}}PSP^{\circ} PeP^{\circ}C\acute{r}C, C\check{H}P^{\circ}C\ddagger C - C\check{U},$
 $P\check{I}C\check{H}PsPrP\mu PjPsPSC\acute{r}C, C\check{H}PsPIP^{\circ}PSP^{\circ} PI C\acute{r}P\check{I}C - P \gg CH\check{H}PSPsPjC\acute{r} P^{\circ}PSP^{\circ}P \gg C - P \cdot C - PrPIPsC \dots$
 $PrPsC\acute{r}P \gg C - PrP\check{I}P\mu PSCH\check{H}, PI C\check{U}PeP\ddot{e}C \dots PIP \cdot C\check{U}P \gg \ddot{e} C\acute{r}C\ddagger P^{\circ}C\acute{r}C, CH\check{H} 480 P\check{I}P^{\circ}C\ddagger C - C''PSC, C - PI P \cdot$
 $C\check{H}P^{\circ}PePsPj P\check{I}P\mu C\check{H}P\mu PrPjC - C \dots C\acute{r}C\check{H}PsPIPsC - P \cdot P^{\circ}P \gg PsP \cdot P\ddot{e} P \pm P\mu P \cdot$
 $PjP\mu C, P^{\circ}C\acute{r}C, P^{\circ}P \cdot C\acute{r}PIP^{\circ}PSPSC\check{U} (Ph0), C\check{U}PeC - PSP\mu PsC, C\check{H}P\ddot{e}PjC\acute{r}PIP^{\circ}P \gg \ddot{e}$
 $P\check{I}PsP\check{I}P\mu C\check{H}P\mu PrPSC\check{H}PsC - C, P\mu C\check{H}P^{\circ}P\check{I}C - C - P\acute{K}P^{\circ} PjPsPjP\mu PSC, PjP\mu PrC - P^{\circ}PSP\ddot{e}$
 $P\check{I}P\mu C\check{H}C - PsPrC\acute{r} C\acute{r}P\check{I}PsC\acute{r}C, P\mu C\check{H}P\mu P\check{I}P\mu PSPSC\check{U} 6,3 C\check{H}PsPeC - PI C\check{H}C - PIP\mu PSCH\check{H}$
 $C\acute{r}PjP\mu C\check{H}C, PSPsC\acute{r}C, C - C\acute{r}C, P^{\circ}PSPsPIP\ddot{e}PI 56 \% C - PrPsC\acute{r}C, PsPIC - C\check{H}PSPs PSP\mu$
 $PIC - PrC\check{H}C - P \cdot PSC\check{U}PIC\acute{r}C\check{U} PI P\check{I}C\check{H}C\acute{r}P\check{I}P^{\circ}C \dots P \cdot P^{\circ}C\acute{r}C, PsC\acute{r}C\acute{r}PIP^{\circ}PSPSC\check{U} P\check{L}P^{\circ}C\acute{r}PsPrP\mu PeC\acute{r}C\acute{r}$
 $C, P^{\circ} PeP^{\circ}C\acute{r}C, C\check{H}P^{\circ}C\ddagger C - C - (PhP \ 1,05; P''P\ddagger 0,81\check{B}\check{H}^{\text{TM}} 1,36); P\check{I}C\check{H}PsC, P\mu$
 $C\check{H}C - PIPSPsC\ddagger C - PSPSC - C\acute{r}C, CH\check{H} PsP \pm PsC \dots PjP\mu C, PsPrC - PI P \gg C - PeC\acute{r}PIP^{\circ}PSPSC\check{U} PSP\mu$
 $PjPsP\check{I}PSP^{\circ} PsC\ddagger C - PSP\ddot{e}C, P\ddot{e} C\acute{r}C, P^{\circ}C, P\ddot{e}C\acute{r}C, P\ddot{e}C\ddagger PSPs.$

$P' C \dots PsPrC - PsP \pm \check{B}\check{H}^{\text{TM}} C'' PrPSP^{\circ}PSPsPiPs P^{\circ}PSP^{\circ}P \gg C - P \cdot C\acute{r} PrPIPsC \dots PrPsC\acute{r}P \gg C - PrP\check{I}P\mu PSCH\check{H},$
 $PI C\check{U}PeP\ddot{e}C \dots PIP \cdot C\check{U}P \gg \ddot{e} C\acute{r}C\ddagger P^{\circ}C\acute{r}C, CH\check{H} 805 P\check{I}P^{\circ}C\ddagger C - C''PSC, C - PI P \cdot$
 $PjP\mu C, P^{\circ}C\acute{r}C, P^{\circ}P \cdot C\acute{r}PIP^{\circ}PSPSC\check{U}Pj (Ph1), C\check{U}PeC - PSP\mu PsC, C\check{H}P\ddot{e}PjC\acute{r}PIP^{\circ}P \gg \ddot{e}$
 $P\check{I}PsP\check{I}P\mu C\check{H}P\mu PrPSC\check{H} C, P\mu C\check{H}P^{\circ}P\check{I}C - C\check{H}, P\check{I}C\check{H}P\ddot{e} C\check{H}C - PIPSC - C\acute{r}PjP\mu C\check{H}C, PSPsC\acute{r}C, C - 43 \%$
 $P\check{L}P^{\circ}C\acute{r}PsPrP\mu PeC\acute{r} 150 PjPi P \pm C\acute{r}PI PsC\ddagger C - PSP\mu PSP\ddot{e}PN_{\check{e}} C\check{U}Pe PjP\mu PSC\epsilon$
 $P\mu C, P\mu PeC, P\ddot{e}PIPSP\ddot{e}PN_{\check{e}}, PSC - P\check{I} PeP^{\circ}C\acute{r}C, C\check{H}P^{\circ}C\ddagger C - C\check{U}, C\%_{\check{o}}PsPrPs C\ddagger P^{\circ}C\acute{r}C\acute{r}$
 $PIP\ddot{e}P\check{I}P\ddot{e}PIP^{\circ}PSPSC\check{U} (PhP \ 1,30; P''P\ddagger 1,04\check{B}\check{H}^{\text{TM}} 1,65), P\check{I}C\check{H}P\ddot{e} C\ddagger CH\check{H}PsPjC\acute{r} C\ddagger P\ddot{e}C\acute{r}P\mu P \gg CH\check{H}PSP^{\circ}$
 $C\check{H}C - P \cdot PSP\ddot{e}C\ddagger C\check{U} PI C\ddagger P^{\circ}C\acute{r}C - PrPs C\acute{r}PjP\mu C\check{H}C, C - C\acute{r}C, P^{\circ}PSPsPIP\ddot{e}P \gg P^{\circ} 42 PrPSC - (6$
 $C, P\ddot{e}P\check{I}PSC - PI) P\check{I}C\check{H}P\ddot{e} PjP\mu PrC - P^{\circ}PSC - PIP\ddot{e}P\check{I}P\ddot{e}PIP^{\circ}PSPsC\acute{r}C, C - 2 C\check{H}PsPeP\ddot{e}.$

$P'C - PeP^{\circ}P \gg C\acute{r}C, P^{\circ}PjC - Pr C'' C\check{H}P^{\circ}C\ddagger P\mu PjC - C\ddagger PSPsC\check{H} C\acute{r}C\acute{r}PjC - C\epsilon C\epsilon C\check{H} P \cdot$
 $P^{\circ}PSC, P\ddot{e}P^{\circ}PSPPrC\check{H}PsPiP\mu PSPSPsC\check{H} P^{\circ}PeC, P\ddot{e}PIPSC - C\acute{r}C, C\check{H}, P\check{I}C\check{H}P\mu PrC\acute{r}C, P^{\circ}PIP \gg P\mu PSP\ddot{e}PN_{\check{e}}$
 $PjP^{\circ}PN_{\check{e}}P\check{I}P\mu PIP\ddot{e}PeP \gg C\check{H}C\ddagger PSPs (R) - P\mu PSP^{\circ}PSC, C - PsPjP\mu C\check{H}PsPj.$

$P''C - C, P\ddot{e}.$

$P - PsPrPSP\ddot{e}C \dots PrPsC\acute{r}P \gg C - PrP\check{I}P\mu PSCH\check{H} P \cdot P^{\circ} C\acute{r}C\ddagger P^{\circ}C\acute{r}C, C\check{H} PrC - C, P\mu PN_{\check{e}} PSP\mu$
 $P\check{I}C\check{H}PsPIPsPrP\ddot{e}P \gg \ddot{e} (PrP\ddot{e}PI. C\check{H}PsP \cdot PrC - P \gg \ddot{e} B \ll P\mu C\check{H}PsC, P\ddot{e}P\check{I}PsPeP^{\circ}P \cdot P^{\circ}PSPSC\check{U}B \gg C -$
 $B \ll P - P^{\circ}C\acute{r}C, PsC\acute{r}C\acute{r}PIP^{\circ}PSPSC\check{U} C\acute{r} P\check{I}P\mu C\check{H}C - PsPr PIP^{\circ}P\check{I}C - C, PSPsC\acute{r}C, C - C, P^{\circ}$

PiPsPrCfPIP°PSPSCl PiCfCfPrPrChB»).

PαP°CfPjP°PePsPeC-PSPμC,PēPeP°

PfP±CfPsCfP±CfC-Cl

P'C-PeP°P»CfC,P°PjC-Pr PrPsP±CfPμ P°P±CfPsCfP±CfC''C,ChCfCf PiCfPē
PiPμCfPsCfP°P»ChPSPsPjCf PiCfPēPNēPsPjC-. P''PsPeP°P·Pē PeP»C-PSC-CfPSPs
P·PSP°CfCfC%PsPiPs PIPiP»PēPICf PiCfPēPNēPsPjCf C-PfC- PSP°
P±C-PsPrPsCfC,CfPiPSC-CfC,Ch PiCfPμPiP°CfP°C,Cf PIC-PrCfCfC,PSC-.

P PsP·PiPsPrC-P»

P'C-PeP°P»CfC,P°PjC-Pr PjP°C'' PIPēCfPsPePēPNē CfC,CfPiC-PSCf P·PiBf™ ClP·CfPIP°PSPSCl
P· P±C-P»PeP°PjPē (CfP°CfPμPjP°C, 96 %, (R)-PμPSP°PSC,C-PsPjPμCf >99 %) C-
PiC-PrPrP°C''C,ChCfCf C-PSC,PμPSCfPēPIPSPsPjCf PjPμC,P°P±PsP»C-P·PjCf (CfP»ClC...PsPj
PsPePēCfP»PμPSPSCl C- PiP»ChPeCfCfPsPSC-P·P°CfC-C-); PNēPsPiPs PjPμC,P°P±PsP»C-C,Pē
PIPēIPsPrClC,ChCfCf PSPēCfPeP°PjPē C- P· PfPsPICfCh PiCfPēP±P»PēP·PSPs PI
PsPrPSP°PePsPIC-PNē PeC-P»ChPePsCfC,C-.

P'C-PsC,CfP°PSCfC,,PsCfPjP°CfC-Cl

(S)-PμPSP°PSC,C-PsPjPμCf PrCfPfPμ CēPIPēPrPePs PIPēIPsPrPēC,ChCfCf PI
PiPsCfC-PIPSClPSPSC- P· (R)-PμPSP°PSC,C-PsPjPμCfPsPj; PIPēIPμPrPμPSPSCl
PsCfC,P°PSPSCHsPiPs P· PiP»P°P·PjPē Ps CfC,P°PSPsPIPēC,Ch PiCfPēP±P»PēP·PSPs 1
C,PēPfPrPμPSCf.

PμCfPē C%PsPrPμPSPSPsPjCf PiCfPēP·PSP°CfPμPSPSC- PiCfPμPiP°CfP°C,Cf
PμP°CfPsPrPμPeCf 150 PjPi (R)-PμPSP°PSC,C-PsPjPμCf PIPSP°CfP»C-PrPsPe PNēPsPiPs
C,CfPēPIP°P»PsPiPs PiPμCfC-PsPrCf PSP°PiC-PIPIPēIPμPrPμPSPSCl
PeCfPjCfP»ChC''C,ChCfCf PI PiP»P°P·PjC- PeCfPsPIC- PI 10-PeCfP°C,PSC-PNē
PePsPSCfPμPSC,CfP°CfC-C-.

PμP»P°C,Ps PePsPSCfPμPSC,CfP°CfC-C- (R)-PμPSP°PSC,C-PsPjPμCfP° PSP° CfC-PIPC-
PiCfPēP±P»PēP·PSPs 22 PjPePi/PjP» PIC-PrP·PSP°CfPμPSPs PiCfPē PiCfPēP·PSP°CfPμPSPSC-
PrPsP±PsPiPsC- PrPsP·Pē 150 PjPi PμP°CfPsPrPμPeCfCf. Pj CfC,P°P±C-P»ChPSC-PNē
C,,P°P·C- PSP° CfP°CfC,PeCf PiPμCfPμPIP°PfPSPs P°PeC,PēPIPSPsPiPs (R)-
PμPSP°PSC,C-PsPjPμCfP° PiCfPēPiP°PrP°C'' 99 % P·P°PiP°P»ChPSPsC- PeC-P»ChPePsCfC,C-
CfPēCfPeCfP»ChChCfPēC... PμPSP°PSC,C-PsPjPμCfC-PI.

P·P»C-PjC-PSP°CfC-Cl (PIPēIPμPrPμPSPSCl)

PμC-Pr CfP°Cf PeP»C-PSC-CfPSPsPiPs PrPsCfP»C-PrPfPμPSPSCl CfPμCfPμPrPSCl
PePsPSCfPμPSC,CfP°CfC-Cl (R)-P±C-PeP°P»CfC,P°PjC-PrCf PI CfPiPμCfPjC-
CfPsP»PsPIC-PeC-PI, ClPeC- PsC,CfPēPjCfPIP°P»Pē PμP°CfPsPrPμPeCf 150 PjPi,
CfC,P°PSPsPIPēP»P° 4,9 PjPePi/PjP». PμC-P»ChPeC-CfC,Ch P±C-PeP°P»CfC,P°PjC-PrCf,
ClPeP° PiPsC,PμPSCfC-PNēPSPs PiPsC,CfP°PiP»ClC'' PI PsCfPiP°PSC-P·Pj PfC-PSPePē-
PiP°CfC,PSPμCfP° PiC-Pr CfP°Cf CfC,P°C,PμPiPsPiPs P°PeC,Cf, PSPēP·ChPeP° C- PjPsPfPμ
CfC,P°PSPsPIPēC,Pē PiCfPēP±P»PēP·PSPs 0,3 PjPePi/PjP», C%Ps PSPēPfCfPμ, PSC-Pf
CfC-PIPμPSCf, ClPePēPNē Cf P»P°P±PsCfP°C,PsCfPSPēC... C,PIP°CfPēPS
PiCfPēP·PiPsPrPēC,Ch PrPs PIPiP»PēPICf PSP° PiPsC,PsPjCfC,PIPs.

PhCfPSP±P»PëPIC- PiCfCfPïPë PiP°C+C-C"PSC,C-PI

PαP°CfPjP°PePsPeC-PSPμC,PëPeP° (R)-PμPSP°PSC,C-PsPjPμCfP° PSPμ P·P°P»PμP¶PëC,CHB
PIC-Pr PIC-PeCf, CfCfP°P¶PμPSPSC¶ PSpëCfPsPe P°P±Ps P»PμPiPePsPiPs C,P°
PïPsPjC-CfPSPsPiPs CfC,CfPïPμPSC¶ C,C¶P¶PePsCfC,C- CfCfP°P¶PμPSPSC¶ PïPμC±C-PSPePë.
P†CfPSCfCfC,CHB PrPsPeP°P·Pë, C%Ps Cf PiP°C+C-C"PSC,C-PI P· C,C¶P¶PePëPjPë
CfCfP°P¶PμPSPSC¶PjPë PïPμC±C-PSPePë (R)-PμPSP°PSC,C-PsPjPμCf PïPsPIC-P»CHBPS-C€Pμ
PIPëIPsPrPëC,CHBfC¶ P· PïP»P°P·PjPë PeCfPsPIC-.

PμP»C-PSC-C±PSC- C...P°CfP°PeC,PμCfPëCfC,PëPePë.

PμPsPeP°P·P°PSPSC¶.

PμP°CfPSPrPμPeCf 150 PjPi PïCfPëP·PSP°C±P°CfC,CHB C¶Pe PjPsPSPsC,PμCfP°PïC-Cf, C,P°
C¶Pe P°PrPë™ C¶PIP°PSC,PSCf C,PμCfP°PïC-Cf Cf PïPsC"PrPSP°PSPSC- P·
CfP°PrPëPeP°P»CHBPSsCf PïCfPsCfC,P°C,PμPeC,PsPjC-C"CH P°P±Ps PïCfPsPjPμPSPμIPsCf
C,PμCfP°PïC-C"CH PïP°C+C-C"PSC,P°Pj P· PjC-CfC†PμIPs-CfPsP·PïPsPICfCfPrP¶PμPSPëPj
CfP°PePsPj PïPμCfPμPrPjC-C...CfCfPsIPsC— P·P°P»PsP·Pë Cf CfP°P·C- PIPëCfPsPePsPiPs
CfPëP·PëPeCf PïCfPsPiCfPμCfCfPIP°PSPSC¶ P·P°C...PIPSCfCfPIP°PSPSC¶ (PrPëPI.
CfPsP·PrC-P» B«PαP°CfPjP°PePsP»PsPiC-C±PSC- PIP»P°CfC,PëIPsCfC,C-B»).

PμP°CfPSPrPμPeCf 150 PjPi C,P°PePsP¶ PïCfPëP·PSP°C±P°CfC,CHB PrP»C¶
P»C-PeCfPIP°PSPSC¶ PïP°C+C-C"PSC,C-PI P· PjC-CfC†PμIPs-CfPsP·PïPsPICfCfPrP¶PμPSPëPj
PSPμPjPμC,P°CfC,P°C,PëC±PSPëPj CfP°PePsPj PïPμCfPμPrPjC-C...CfCfPsIPsC— P·P°P»PsP·Pë,
PePsP»Pë C...C-CfCfCfPiC-C±PSP° PeP°CfC,CfP°C+C-C¶ P°P±Ps C-PSC€C- PjPμPrPëC±PSC-
PIC,CfCfC±P°PSPSC¶ C" PSPμPïCfPëPμPSC¶C,PSPëPjPë C±Pë PSPμ PjPsP¶CfC,CHB P±CfC,Pë
P·P°CfC,PsCfPsPIP°PSC-.

PμCfPsC,PëPïPsPeP°P·P°PSPSC¶.

PμP°CfPSPrPμPeCf 150 PjPi PïCfPsC,PëPïPsPeP°P·P°PSPëPμ PrP»C¶
P·P°CfC,PsCfCfPIP°PSPSC¶ P¶C-PSPeP°Pj C,P° PrC-C,C¶Pj (PrPëPI.CfPsP·PrC-P»
B«P—P°CfC,PsCfCfPIP°PSPSC¶ Cf PïPμCfC-PsPr PIP°PiC-C,PSPsCfC,C- C,P°
PiPsPrCfPIP°PSPSC¶ PïCfCfPrPrCfB»).

PμP°CfPSPrPμPeCf 150 PjPi PïCfPsC,PëPïPsPeP°P·P°PSPs PïCfPëP·PSP°C±P°C,Pë
C...PIPSCfPëPj, Cf C¶PePëC... PIC-PrPjC-C±P°P»P°CfCHB CfPμP°PeC+C-C¶
PiC-PïPμCfC±CfC,P»PëIPsCfC,C- PrPs P°PeC,PëPIPSPsC— CfPμC±PsPIPëPSPë P°P±Ps PrPs
P±CfPrCHB-C¶PePsC— P· PrPsPiPsPjC-P¶PSPëC... CfPμC±PsPIPëPS.

PhPrPSPsC±P°CfPSPëPμ PïCfPëPμPsPj PμP°CfPSPrPμPeCfCf P· C,PμCfC,,PμPSP°PrPëPSPsPj,
P°CfC,PμPjC-P·PsP»PsPj P°P±Ps C†PëP·P°PïCfPëPrPsPj PïCfPsC,PëPïPsPeP°P·P°PSPëPμ (PrPëPI.
CfPsP·PrC-P» B«P·P·C"PjPsPrC-C¶ P· C-PSC€PëPjPë P»C-PeP°CfCfCHBPePëPjPë
P·P°CfPs±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C"PjPsPrC-PμB»).

**P·P·P°C"PjPsPrC-C¶ P· C-PSC€PëPjPë P»C-PeP°CfCfCHBPePëPjPë P·P°CfPsP±P°PjPë C,P°
C-PSC€C- PIPëPrPë PIP·P°C"PjPsPrC-Pμ.**

P"PsCfP»C-PrP¶PμPSPSC¶ C-n vitro PïPsPeP°P·P°P»Pë, C%Ps R-P±C-PeP°P»CfC,P°PjC-Pr C"

C-PSPIc-P±C-C,PsCḡPsPj CYP3A4 C,P° PIPëCḡPIP»CḡC” PjPμPSC€PëPNë
C-PSPIc-P±C-C,PsCḡPSPëPNë PμC,,PμPeC, PSP° P°PeC,PëPIPSc-CḡC,Ch CYP 2Pḡ9, 2Pḡ19 C,P°
2D6. PḡPsC±P° PeP»C-PSC-C±PSC- PrPsCḡP»C-PrPḡPμPSPSCḡ, Cr C...PsPrC- CḡPePëC...
P·P°CḡC,PsCḡPsPICḡPIP°P»Pë P°PSC,PëPiC-CḡPëPS CḡPe PjP°CḡPePμCḡ P°PeC,PëPIPSsCḡC,C-
C±PëC,PsC...CḡPsPjCr P 450 (CYP), PSPμ CḡPIC-PrC±P°C,Ch PiCḡPs PiPsC,PμPSC†C-PNëPSCḡ
PIP·P°C”PjPsPrC-Cḡ P· PḡP°CḡPsPrPμPeCḡPsPj, CḡPμCḡPμPrPSCḡ PePsPSC†PμPSC,CḡP°C†C-Cḡ
PjC-PrP°P·PsP»P°PjCr (PiP»PsC%P° PiC-Pr C,,P°CḡPjP°PePsPeC-PSPμC,PëC±PSPsCḡ
PeCḡPëPIPsCḡ) P·P±C-P»ChC€PëP»P°CḡCh PrPs 80 % PiC-CḡP»Cḡ PsPrPSPsC±P°CḡPSPsPiPs
PNëPsPiPs PiCḡPëPNëPsPjCr PiCḡPsC,CḡPiPsPj 28 PrPSC-PI C-P· PḡP°CḡPsPrPμPeCḡPsPj. P”P»Cḡ
PiCḡPμPiP°CḡP°C,C-PI P· PICḡP·ChPePëPj C,PμCḡP°PiPμPIC,PëC±PSPëPj PrC-P°PiP°P·PsPSPsPj
C,P°PePμ PiC-PrPIPëC%PμPSPSCḡ PjPsPḡPμ PjP°C,Pë PIP°PḡP»PëPIPμ P·PSP°C±PμPSPSCḡ.
P’C-PrPiPsPIC-PrPSPs, PsPrPSPsC±P°CḡPSPμ P·P°CḡC,PsCḡCrPIP°PSPSCḡ C-P·
C,PμCḡC,,PμPSP°PrPëPSPsPj, P°CḡC,PμPjC-P·PsP»PsPj C,P° C†PëP·P°PiCḡPëPrPsPj C”
PiCḡPsC,PëPiPsPeP°P·P°PSPëPj (PrPëPI. CḡPsP·PrC-P» B«PμCḡPsC,PëPiPsPeP°P·P°PSPSCḡB»).

PḡP°PePsPḡ PḡP°CḡPsPrPμPeCḡ CḡP»C-Pr P· PsP±PμCḡPμPḡPSC-CḡC,Cḡ
P·P°CḡC,PsCḡPsPICḡPIP°C,Pë C-P· C,P°PePëPjPë CḡPiPsP»CrPeP°PjPë, CḡPe
C†PëPeP»PsCḡPiPsCḡPëPS C,P° P±P»PsPeP°C,PsCḡPë PeP°P»ChC†C-C”PIPëC... PeP°PSP°P»C-PI.

PḡPsPḡPμ PIPëPSPëPePSCḡC,Pë PSPμPsP±C...C-PrPSC-CḡC,Ch Cr P·PjPμPSC€PμPSPSC-
PrPsP·Pë C†PëC... PiCḡPμPiP°CḡP°C,C-PI, PsCḡPsP±P»PëPIPs CḡPeC%Ps C” PsP·PSP°PePë
PiPsCḡPëP»PμPSPSCḡ PIP’P»PëPICḡ PiCḡPμPiP°CḡP°C,Cr C±Pë PIPëPSPëPeP°CḡC,Ch
PiPsP±C-C±PSC- PμC,,PμPeC,Pë Cr CḡPμP·CḡP»ChC,P°C,C- PNëPsPiPs
P·P°CḡC,PsCḡCrPIP°PSPSCḡ. PμCḡPë P·P°CḡC,PsCḡCrPIP°PSPSC- C†PëPeP»PsCḡPiPsCḡPëPSCḡ
CḡPμPePsPjPμPSPPrCḡC,Ch PiCḡPsPiPsPrPëC,Pë CḡPμC,PμP»ChPSPμ
CḡPiPsCḡC,PμCḡPμPḡPμPSPSCḡ P·P° PNëPsPiPs PePsPSC†PμPSC,CḡP°C†C-C”Cḡ Cr PiP»P°P·PjC-
C,P° P·P° PeP»C-PSC-C±PSPëPj CḡC,P°PSPsPj PiP°C†C-C”PSC,P° PiC-CḡP»Cḡ PiPsC±P°C,PeCḡ
C±Pë PiCḡPëPiPëPSPμPSPSCḡ P»C-PeCḡPIP°PSPSCḡ PḡP°CḡPsPrPμPeCḡPsPj.

P— PsP±PμCḡPμPḡPSC-CḡC,Cḡ CḡP»C-Pr PiCḡPëP·PSP°C±P°C,Pë PḡP°CḡPsPrPμPeCḡ PiCḡPë
P·P°CḡC,PsCḡCrPIP°PSPSC- PiCḡPμPiP°CḡP°C,C-PI, CḡPeC- PjPsPḡCrC,Ch
PiCḡPëPiPSC-C±CḡPIP°C,Pë PsPePëCḡP»PμPSPSCḡ PiCḡPμPiP°CḡP°C,C-PI, C,P°PePëC... CḡPe
C†PëPjPμC,PëPrPëPS, PePμC,PsPePsPSP°P·PsP». PḡPμPsCḡPμC,PëC±PSPs C†Pμ PjPsPḡPμ
PiCḡPëP·PIPμCḡC,Pë PrPs PiC-PrPIPëC%PμPSPSCḡ PePsPSC†PμPSC,CḡP°C†C-C—
PḡP°CḡPsPrPμPeCḡCr Cr PiP»P°P·PjC-, C%Ps PjPsPḡPμ P·CḡPjPsPIPëC,Pë PiPsCḡPëP»PμPSPSCḡ
PiPsP±C-C±PSPëC... PμC,,PμPeC,C-PI PiCḡPμPiP°CḡP°C,Cr.

P”PsCḡP»C-PrPḡPμPSPSCḡ C-n vitro PiPsPeP°P·P°P»Pë, C%Ps P±C-PeP°P»CrC,P°PjC-Pr
PjPsPḡPμ PIPëC,C-CḡPSCḡC,Pë PeCḡPjP°CḡPëPSPsPIPëPNë P°PSC,PëPePsP°PiCḡP»CḡPSC,
PIP°CḡC,,P°CḡPëPS C-P· PrC-P»CḡPSPsPe PNëPsPiPs P·Piḡḡ™ CḡP·CḡPIP°PSPSCḡ P·
P±C-P»PeP°PjPë. B PμPsPIC-PrPsPjP»CḡP»PsCḡCḡ PiCḡPs PiPsCḡPëP»PμPSPSCḡ
PμC,,PμPeC,C-PI PIP°CḡC,,P°CḡPëPSCḡ C,P° C-PSC€PëC... PeCḡPjP°CḡPëPSPsPIPëC...
P°PSC,PëPePsP°PiCḡP»CḡPSC,C-PI PiCḡPë C—C... PsPrPSPsC±P°CḡPSPsPjCr PiCḡPëPNëPsPjC- P·
PḡP°CḡPsPrPμPeCḡPsPj. PḡPsPjCr PiC-Pr C±P°Cḡ P·P°CḡC,PsCḡCrPIP°PSPSCḡ
PḡP°CḡPsPrPμPeCḡCr Cr PiP°C†C-C”PSC,C-PI, CḡPeC- PsPrPSPsC±P°CḡPSPs
PsC,CḡPëPjCrCḡC,Ch PeCḡPjP°CḡPëPSPsPIC- P°PSC,PëPePsP°PiCḡP»CḡPSC,Pë,
CḡPμPePsPjPμPSPPrCḡC,Ch PiCḡPsPiPsPrPëC,Pë CḡPμC,PμP»ChPSPëPNë
PjPsPSC-C,PsCḡPëPSPi PμPḡ/PḡPḡP’, C- PiPsC,CḡC-P±PSPs CḡPsP·PiP»CḡPSCḡC,Pë
PiPëC,P°PSPSCḡ PiCḡPs PePsCḡPëPiCḡPIP°PSPSCḡ PrPsP·Pë P°PSC,PëPePsP°PiCḡP»CḡPSC,C-PI
(PrPëPI. CḡPsP·PrC-P»Pë B«PḡCḡPsP±P»PëPIPsCḡC,C- P·P°CḡC,PsCḡCrPIP°PSPSCḡB» C-
B«PμPsP±C-C±PSC- CḡPμP°PeC†C-C—B»).

PJ P·Piḡḡ™ CḡP·PeCḡ P· C,PëPj, C%Ps P°PSC,PëP°PSPḡCḡPsPiPμPSPSP° C,PμCḡP°PiC-Cḡ

PjPsP¶Pµ PīCḡPēP·PIPsPrPēC,Pē PrPs PīPsPrPsPIP¶PµPSPSCḡ C-PSC,PµCḡPIP°P»Cḡ QT, CḡP»C-Pr P· PsP±PµCḡPµP¶PSC-CḡC,Cḡ PīCḡPēP·PSP°C‡P°C,Pē PḡP°CḡPsPrPµPeCḡ PsPrPSPSc‡P°CḡPSPs P· P»C-PeP°CḡCḡPēPēPjPē P·P°CḡPsP±P°PjPē, CḡPeC- P·PrP°C,PSC- PīPsPrPsPIP¶PēC,Pē C-PSC,PµCḡPIP°P» QT P°P±Ps CḡPīCḡPēC‡PēPSPēC,Pē CḡPsP·PIPēC,PsPe CēP»CḡPSPSc‡PePsPIPsC— C,P°C...C-PeP°CḡPrC-C— C,PēPīCḡ PīC-CḡCḡPµC, (torsade de pointes), C,P°PePēPjPē CḡPe P°PSC,PēP°CḡPēC,PjC-C‡PSC- PīCḡPµPīP°CḡP°C,Pē PeP»P°CḡCḡ IA (C...C-PSC-PrPēPS, PrPēP·PsPīC-CḡP°PjC-Pr) P°P±Ps PeP»P°CḡCḡ III (P°PjC-PsPrP°CḡPsPS, CḡPsC,P°P»PsP», PrPsC,,PµC,PēP»C-Pr, C-P±CḡC,PēP»C-Pr), PjPµC,P°PrPsPS, PjPsPeCḡPēC,,P»PsPeCḡP°C‡PēPS, PSPµPNḡCḡPsP»PµPīC,PēPePē C,PsC%Ps. (PrPēPI. CḡPsP·PrC-P» B«PḡCḡPsP±P»PēPIPsCḡC,C- P·P°CḡC,PsCḡCḡPIP°PSPSCḡB»).

P°C-C,Pē.

P°PScḡP»C-PrP¶PµPSPSCḡ PIP·P°C°PjPsPrC-C— PīCḡPsPIPµPrPµPSC- C,C-P»CḡPēPē P·P° CḡC‡P°CḡC,Cḡ PrPsCḡPsCḡP»PēC....

PḡCḡPsP±P»PēPIPsCḡC,C-B P·P°CḡC,PsCḡCḡPIP°PSPSCḡ.

P>C-PeCḡPIP°PSPSCḡ PīCḡPµPīP°CḡP°C,PsPj CḡP»C-Pr PīPsC‡PēPSP°C,Pē PīC-Pr P±PµP·PīPsCḡPµCḡPµPrPSC-Pj PSP°PīP»CḡPrPsPj P»C-PeP°CḡCḡ.

P°C-PeP°P»CḡC,P°PjC-Pr P°PeC,PēPIPsPs PjPµC,P°P±PsP»C-P·CḡC°C,CḡCḡCḡPI PīPµC‡C-PSC‡C-. PµPµPIPSC- PrP°PSC- PrP°CḡC,Cḡ PīC-PrCḡC,P°PICḡ PIPIP°P¶P°C,Pē, C%Ps Cḡ PīP°C‡C-C°PSC,C-PI P· C,CḡP¶PePēPjPē CḡCḡP°P¶PµPSPSCḡPjPē PīPµC‡C-PSPePē PIPēPIPµPrPµPSPSCḡ PīCḡPµPīP°CḡP°C,Cḡ CḡPīPsPIC-P»CḡPSCḡC°C,CḡCḡCḡ, P° C‡Pµ PjPsP¶Pµ PīCḡPēP·PIPµCḡC,Pē PrPs PeCḡPjCḡP»CḡC‡C-C— P±C-PeP°P»CḡC,P°PjC-PrCḡ. PḡPsPjCḡ PḡP°CḡPsPrPµPeCḡ 150 PjPi CḡP»C-Pr P·P°CḡC,PsCḡPsPICḡPIP°C,Pē P· PsP±PµCḡPµP¶PSC-CḡC,Cḡ PīP°C‡C-C°PSC,P°Pj P· PīPsPjC-CḡPSPēPjPē P°P±Ps C,CḡP¶PePēPjPē CḡCḡP°P¶PµPSPSCḡPjPē PīPµC‡C-PSPePē.

PḡPµCḡPµP· PjPsP¶P»PēPIC-CḡC,Cḡ P·PjC-PSPe C,,CḡPSPeC‡C-C— PīPµC‡C-PSPePē CḡP»C-Pr PīPµCḡC-PsPrPēC‡PSPs PePsPSC,CḡPsP»CḡPIP°C,Pē PīPµC‡C-PSPePsPIC- PīCḡPsP±Pē. PḡC‡C-PeCḡC°C,CḡCḡCḡ, C%Ps P±C-P»CḡCḡC-CḡC,Cḡ P·PjC-PS PjPsP¶P»PēPIP° PīCḡPsC,CḡPīPsPj PīPµCḡCēPēC... 6 PjC-CḡCḡC‡C-PI P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PḡP°CḡPsPrPµPeCḡCḡ.

P C-PrPePs PīCḡPē PīCḡPēP·PSP°C‡PµPSPSC- PḡP°CḡPsPrPµPeCḡCḡ 150 PjPi CḡPīPsCḡC,PµCḡC-PīP°CḡC,Cḡ P·PjC-PSPe Cḡ C,,CḡPSPeC‡C-C— PīPµC‡C-PSPePē C,CḡP¶PePsPīPs CḡC,CḡPīPµPSCḡ, P±CḡP»Pē PsC,CḡPēPjP°PSC- PīPsPIC-PrPsPjP»PµPSPSCḡ PīCḡPs P»PµC,P°P»CḡPSC- PIPēPīP°PrPePē (PrPēPI. CḡPsP·PrC-P» B«PµPsP±C-C‡PSC- CḡPµP°PeC‡C-C—B»). PīPeC%Ps PIPēPSPēPeP°CḡC,Cḡ P·PjC-PSPe C,,CḡPSPeC‡C-C— PīPµC‡C-PSPePē C,CḡP¶PePsPīPs CḡC,CḡPīPµPSCḡ, P»C-PeCḡPIP°PSPSCḡ PḡP°CḡPsPrPµPeCḡPsPj 150 PjPi CḡP»C-Pr PīCḡPēPīPēPSPēC,Pē.

P°P»Cḡ PīP°C‡C-C°PSC,C-PI, CḡPeC- PjP°CḡC,Cḡ PsP±Pḡ C°PeC,PēPIPsPµ

РiСҢPsPiСҢPμCГCрPIP°PSPSCЦ P·P°С...PIPsСҢСҢPIP°PSPSCЦ СҢP°P·PsPj P·
PіC-PrPIPёC%oPμPSPёPj СҢC-PIPSμPj PμPҮPҢ
(PіСҢPsCГC,P°С,PсCГPіPμC†PёC,,C-С†PSPёPNё P°PSC,PёPiPμPS), CГP»C-Pr
СҢPsP·PiP»CЦPSCрC,Pё PjPsP¶P»PёPIC-CГC,СҢ PіСҢPёPіPёPSPμPSPSCЦ
C,PμСҢP°PiC-C— PҢP°CГPsPrPμPeCГPsPj.

PμPsPeP°P·P°PSPs, C%oPs P±C-PeP°P»CрC,P°PjC-Pr PіСҢPёPiPSC-C†CрC”
P°PeC,PёPIPSC-CГC,СҢ P 450 (CYP3A4), C,PсPjCр CГP»C-Pr PіСҢPsCЦPIP»CЦC,Pё
PsP±PμСҢPμP¶PSC-CГC,СҢ PіСҢPё PsPrPSPсC†P°CГPSPsPjCр PNёPsPiPs
P·P°CГC,PсCГCрPIP°PSPSC- P· PіСҢPμPіP°СҢP°С,P°PjPё, CЦPeC-
PjPμC,P°P±PsP»C-P·CрCҢC,СҢCГCЦ PіPμСҢPμPIP°P¶PSPs CYP3A4 (PrPёPI.
СҢPsP·PrC-P»Pё B«PμСҢPsC,PёPiPsPeP°P·P°PSPSCЦB» B C- B«P·P·P°С”PjPsPrC-CЦ P·
C-PSCёPёPjPё P»C-PeP°СҢCГCҢPePёPjPё P·P°CГPsP±P°PjPё C,P° C-PSCёC- PIPёPrPё
PIP·P°С”PjPsPrC-PNёB»).

Pj СҢC-PrPeC-CГPSPёC... PIPёPіP°PrPeP°С... PіPsPIC-PrPsPjP»CЦP»PsCГCЦ PіСҢPs
СҢPμP°PeC†C-C— C,,PsC,PсCГPμPSCГPёP±C-P»C-P·P°C†C-C— Cр PіP°C†C-C”PSC,C-PI,
CЦPeC- PіСҢPёPNёPjP°P»Pё PҢP°CГPsPrPμPeCГ 150 PjPi. PμP°C†C-C”PSC,P°Pj CГP»C-Pr
СҢPμPePsPjPμPSPPrCрPIP°С,Pё CрPSPёPeP°С,Pё PіСҢCЦPjPsPiPs PIPіP»PёPICр
PSP°PrPjC-СҢPSPsPiPs CГPsPSCЦC†PSPsPiPs CГPIC-C,P»P° P°P±Ps
CрP»CҢC,СҢP°С,,C-PsP»PμC,PsPIPsPiPs CГPIC-C,P»P° C,P°
PePsСҢPёCГC,CрPIP°С,PёCГCЦ CГPsPSC†PμP·P°С...PёCГPSPёPjPё P·P°CГPsP±P°PjPё
PіC-Pr C†P°CГ PіСҢPёPNёPsPjCр PҢP°CГPsPrPμPeCГCр 150 PjPi. PіPeC%oPs
СҢPμP°PeC†C-CЦ C,,PsC,PсC†CрC,P»PёPIPsCГC,C- C” P±C-P»CҢCё CГC,C-PNёPePsCҢ
C,P°/P°P±Ps C,CЦP¶PePsCҢ, CГP»C-Pr СҢPsP·PіPsC†P°С,Pё PIC-PrPіPsPIC-PrPSPμ
CГPёPjPіC,PсPjP°С,PёC†PSPμ P»C-PeCрPIP°PSPSCЦ.

PμP°C†C-C”PSC,Pё P· СҢC-PrPeC-CГPSPёPjPё CГPіP°PrPePsPIPёPjPё C,,PsСҢPjP°PjPё
PSPμPіPμСҢPμPSPсCГPёPjPsCГC,C- PіP°P»P°PeC,PсP·Pё, PICҢPsPrP¶PμPSPсCҢ
P»P°PeC,P°P·PSPсCҢ PSPμPrPsCГC,P°С,PSC-CГC,СҢ P°P±Ps CГPёPSPPrСҢPsPjPsPj
PjP°P»CҢP°P±CГPsСҢP±C†C-C— PіP»CҢPePsP·Pё-PіP°P»P°PeC,PсP·Pё PSPμ
PіPsPIPёPSPSC- PіСҢPёPNёPjP°С,Pё C†PμPNё PіСҢPμPіP°СҢP°С,,.

PҮPμСҢP°PiC-CЦ P°PSC,PёP°PSPPrСҢPsPiPμPSP°PjPё PjPsP¶Pμ PіСҢPёP·PIPsPrPёC,Pё
PrPs PіPsPrPsPIP¶PμPSPSCЦ C-PSC,PμСҢPIP°P»Cр QT.

Pj PіP°C†C-C”PSC,C-PI P· C,,P°PeC,PсСҢP°PjPё СҢPёP·PёPeCр P°P±Ps P· PSP°CЦPIPSC-CГC,СҢ
PіPsPrPsPIP¶PμPSPSCЦ C-PSC,PμСҢPIP°P»Cр QT Pі P°PSP°PjPSPμP·C-, P° C,P°PePsP¶ Cр
PіP°C†C-C”PSC,C-PI, CЦPeC- PsPrPSPсC†P°CГPSPs PіСҢPёPNёPjP°СҢC,СҢ
P»C-PeP°СҢCГCҢPeC- P·P°CГPsP±Pё, C%oPs PjPsP¶CрC,СҢ PіPsPrPsPIP¶CрPIP°С,Pё
C-PSC,PμСҢPIP°P» QT (PrPёPI. СҢPsP·PrC-P» B«P·P·P°С”PjPsPrC-CЦ P· C-PSCёPёPjPё
P»C-PeP°СҢCГCҢPePёPjPё P·P°CГPsP±P°PjPё C,P° C-PSCёC- PIPёPrPё PIP·P°С”PjPsPrC-PNёB»),
P»C-PeP°СҢ PіPsPIPёPSPμPS PrPs PіPsC†P°С,PeCр P»C-PeCрPIP°PSPSCЦ
PҢP°CГPsPrPμPeCГPsPj PsC†C-PSPёC,Pё CГPіC-PIPIC-PrPSPсCёPμPSPSCЦ
СҢPёP·PёPe/PePsСҢPёCГC,СҢ, PICҢP°С...PsPICрCҢC†Pё PіPsC,PμPSC†C-PNёPSPёPNё СҢPёP·PёPe
PIPёPSPёPePSPμPSPSCЦ CёP»CрPSPсC†PePsPIPsC— C,P°С...C-PeP°СҢPrC-C— C,PёPiCр
PіC-СҢCрPμC, (torsade de pointes).

PҢPSC,PёP°PSPPrСҢPsPiPμPSPSP° C,PμСҢP°PiC-CЦ PjPsP¶Pμ PIPёPeP»PёPeP°С,Pё P·PjC-PSPё Cр

PjPsC₇C,,PsP»PsPiC-C— CÍPíPµC₇PjP°C,PSP·PsC—PrC-PI. PÍPsC‡P° PIPiP»PëPI
P±C-PeP°P»CfC,P°PjC-PrCf PSP° PjPsC₇C,,PsP»PsPiC-C₇ CÍPíPµC₇PjP°C,PSP·PsC—PrC-PI PSPµ
PsC†C-PSC₇PIP°P»Pë C- PiC₇Ps C,P°PeC- P·PjC-PSPë CÍ PíP°C†C-C”PSC,C-PI, CÍPeC-
PsC,C₇PëPjCfPIP°P»Pë P₇P°CÍPsPrPµPeCÍ, PSPµ PíPsPIC-PrPsPjP»CÍP»Pë, PíP°C†C-C”PSC,P°Pj
C,P°/P°P±Ps C—C... PíP°C₇C,PSPµC₇P°Pj PiC-Pr C‡P°CÍ P»C-PeCfPIP°PSPSCÍ C-
PíC₇PsC,CÍPiPsPj 130 PrPSC-PI PíC-CÍP»CÍ C,PµC₇P°PíC-C— PíC₇PµPíP°C₇P°C,PSPj
P₇P°CÍPsPrPµPeCÍ CÍP»C-Pr PIPëPePsC₇PëCÍC,PsPICfPIP°C,Pë PµC,,PµPeC,PëPIPSC-
PjPµC,PsPrPë PePsPSC,C₇P°C†PµPíC†C-C—.

PµPsPIC-PrPsPjP»CÍP»PsCÍCÍ PíC₇Ps PíPsCÍPëP»PµPSPSCÍ PµC,,PµPeC,C-PI
PeCfPjP°C₇PëPSPsPIPëC... P°PSC,PëPePsP°PiCfP»CÍPSC,C-PI CÍ PíP°C†C-C”PSC,C-PI, CÍPeC-
PsPrPSPsC‡P°CÍPSPs PíC₇PëP₇PjP°P»Pë P₇P°CÍPsPrPµPeCÍ, C%Ps PjPsP¶Pµ
PíC₇PëP·PIPµCÍC,Pë PrPs P·P±C-P»CHC€PµPSPSCÍ PíC₇PsC,C₇PsPjP±C-PSPsPIPsPiPs
C‡P°CÍCf (PµP§) C,P° PjC-P¶PSP°C₇PsPrPSPsPiPs PSPsC₇PjP°P»C-P·PsPIP°PSPsPiPs
PIC-PrPSPsC€PµPSPSCÍ (P₇PkP’). P”PµCÍPeC- PIPëPíP°PrPePë P±CfP»Pë
PíPsPIB₇™ CÍP·P°PSC- P· C₇PëP·PëPePsPj PIPëPSPëPePSPµPSPSCÍ PeC₇PsPIPsC,PµC‡C-.
P PµPePsPjPµPSPPrCfC”C,CHCÍCÍ C₇PµC,PµP»CHPSPs PePsPSC,C₇PsP»C₇PIP°C,Pë
C₇C-PIPSC- PµP§/P₇PkP’, C- PíPsC,C₇C-P±PSPs C₇PsP·PiP»CÍPSCfC,Pë PíPëC,P°PSPSCÍ
PíC₇Ps PePsC₇PëPiCfPIP°PSPSCÍ PrPsP·Pë P°PSC,PëPePsP°PiCfP»CÍPSC,C-PI (PrPëPI.
C₇PsP·PrC-P»Pë B«P’P·P°C”PjPsPrC-CÍ P· C-PSC€PëPjPë P»C-PeP°C₇CÍCHPePëPjPë
P·P°CÍPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-P₇B» C- B«PµPsP±C-C‡PSC-
C₇PµP°PeC†C-C-B»).

P>C-PeP°C₇CÍCHPePëP₇ P·P°CÍC-P± PjC-CÍC,PëC,CH PjPµPSC€Pµ 1 PjPjPsP»CH (23
PjPi)/PrPsP·Cf PSP°C,C₇C-C₇, C,PsP±C,Ps PíC₇P°PeC,PëC‡PSPs PIC-P»CHPSPëP₇ PIC-Pr
PSP°C,C₇C-C₇.

*P—P°CÍC,PsCÍC¿PIP°PSPSCÍ C¿ PíPµC₇C-PsPr PIP°PiC-C,PSPsCÍC,C- C,P°
PiPsPrC¿PIP°PSPSCÍ PiC₇C¿PrPrC₇*

P’P°PiC-C,PSC-CÍC,CH

P’C-PeP°P»CfC,P°PjC-Pr PíC₇PsC,PëPíPsPeP°P·P°PSPëP₇ PrP»CÍ P·P°CÍC,PsCÍCfPIP°PSPSCÍ
P¶C-PSPeP°Pj, PíC₇PsC,PëPíPsPeP°P·P°PSPs PíC₇PëP₇PjP°C,Pë P₇PsPiPs CÍ PíPµC₇C-PsPr
PIP°PiC-C,PSPsCÍC,C-.

P”PsPrCfPIP°PSPSCÍ PiC₇CfPrPrC₇

P’C-PeP°P»CfC,P°PjC-Pr PíC₇PsC,PëPíPsPeP°P·P°PSPëP₇ CÍ PíPµC₇C-PsPr PiPsPrCfPIP°PSPSCÍ
PiC₇CfPrPrC₇.

PµPµC₇C,PëP»CHPSC-CÍC,CH

P₇P±PsC₇PsC,PSPµ PíPsPiC-C₇C€PµPSPSCÍ C‡PsP»PsPIC-C‡PsC—
C,,PµC₇C,PëP»CHPSPsCÍC,C- CÍPíPsCÍC,PµC₇C-PiP°P»PsCÍCÍ CÍ
PrPsCÍP»C-PrP¶PµPSPSCÍC... PSP° C,PIP°C₇PëPSP°C.... Pj P»CHPrPëPSPë CÍP»C-Pr
PíC₇PëPíCfCÍPeP°C,Pë PíPµC₇C-PsPr CÍCfP±C,,PµC₇C,PëP»CHPSPsCÍC,C- P°P±Ps
P±PµP·PíP»C-PrPrCÍ.

*P—PrP°C,PSC-CÍC,CH PIPiP»PëPIP°C,Pë PSP° C€PIPëPrPeC-CÍC,CH C₇PµP°PeC†C-C— PíC₇Pë
PePµC₇C¿PIP°PSPSC- P°PIC,PsC,C₇P°PSCÍPíPsC₇C,PsPj P°P±Ps C-PSC€PëPjPë*

PjPμC...P°PSC-P·PjP°PjPë

PᄡP°CÍPsPrPμPeCÍ PSPμ PIPiP»PëPIP°C” PSP° P·PrP°C,PSC-CÍC,CH PePμCᄡCrPIP°C,Pë
P°PIC,PsPjPsP±C-P»PμPj C±Pë PíCᄡP°C†CᄡPIP°C,Pë P·C- CÍPeP»P°PrPSPëPjPë
PjPμC...P°PSC-P·PjP°PjPë. PhPrPSP°Pe CÍP»C-Pr PjP°C,Pë PSP° CÍPIP°P·C-, C%Ps C±P°CÍC,Ps
PjPsP¶Pμ PIPëPSPëPeP°C,Pë CÍPsPSP»PëPIC-CÍC,CH C,P° P·P°PíP°PjPsCᄡPsC±PμPSPSCÍ
(PrPëPI. CᄡPsP·PrC-P» B«PμPsP±C-C±PSC- CᄡPμP°PeC†C-C—B»). PμP°C†C-C”PSC,Pë, CÍPeC-
PíCᄡPëPNëPjP°CᄡC,CH C†PμPNë PíCᄡPμPíP°CᄡP°C,, PjP°CᄡC,CH P±CÍC,Pë
PsP±PμCᄡPμP¶PSPëPjPë.

PŸPíPsCÍC-P± P·P°CÍC,PsCÍC¿PIP°PSPSCÍ C,P° PrPsP·Pë.

P”PsP·C¿PIP°PSPSCÍ

P”PsCᄡPsCÍP»C- C±PsP»PsPIC-PePë, PI C,PsPjCr C±PëCÍP»C- P»C-C,PSCHPsPiPs
PIC-PeCr: PsPrPSP° C,P°P±P»PμC,PeP° 150 PjPi PIPSCÍC,CᄡC-C€PSCHPs 1 CᄡP°P· PSP°
PrPsP±CÍ.

PᄡP°CÍPsPrPμPeCÍ 150 PjPi PSPμPsP±C...C-PrPSPs PíCᄡPëPNëPjP°C,Pë C,CᄡPëPIP°P»Ps,
PíCᄡPëPSP°PNëPjPSC- PrPs 2 CᄡPsPeC-PI P°P±Ps PrPs PíPsCÍPIPë PsP·PSP°Pe
PíCᄡPsPíCᄡPμCÍCrPIP°PSPSCÍ P·P°C...PIPsCᄡCᄡPIP°PSPSCÍ.

PhCÍPsP±P»PëPIC- PíCᄡC¿PíPë

PᄡPëCᄡPePsPIP° PSPμPrPsCÍC,P°C,PSC-CÍC,CH: PePsCᄡPμPeC†C-CÍ PrPsP·Pë PrP»CÍ
PíP°C†C-C”PSC,C-PI P· PSPëCᄡPePsPIPsCᄡ PSPμPrPsCÍC,P°C,PSC-CÍC,CH PSPμ
PíPsC,CᄡC-P±PSP°.

PμPμC±C-PSPePsPIP° PSPμPrPsCÍC,P°C,PSC-CÍC,CH: PePsCᄡPμPeC†C-CÍ PrPsP·Pë
PrP»CÍ C...PIPsCᄡPëC... P· P»PμPíPePsCᄡ PíPμC±C-PSPePsPIPsCᄡ
PSPμPrPsCÍC,P°C,PSPsCÍC,C- PSPμ PíPsC,CᄡC-P±PSP°.

PμC-PrPIPëC%PμPSP° PeCÍPjCrP»CÍC†C-CÍ PjPsP¶Pμ
CÍPíPsCÍC,PμCᄡC-PíP°C,PëCÍCH CÍ C...PIPsCᄡPëC... P· PíPsPjC-CᄡPSPsCᄡ C,P°
C,CÍP¶PePsCᄡ PíPμC±C-PSPePsPIPsCᄡ PSPμPrPsCÍC,P°C,PSC-CÍC,CH (PrPëPI.
CᄡPsP·PrC-P» B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCrPIP°PSPSCÍB»).

P”C-C,PëB B

PᄡP°CÍPsPrPμPeCÍ PíCᄡPsC,PëPíPsPeP°P·P°PSPëPNë PrPs P·P°CÍC,PsCÍCrPIP°PSPSCÍ
PrC-C,CÍPj (PrPëPI. CᄡPsP·PrC-P» B«PμCᄡPsC,PëPíPsPeP°P·P°PSPSCÍB»).

PμPμCᄡPμPrPsP·C¿PIP°PSPSCÍ.

P"°PSC- PīCḡPs PīPμCḡPμPrPsP·CíPIP°PSPSCİ Cı P»CḡPrPμPNē PIC-PrCíCıC,PSC-.
PŸPīPμCıPēC,,C-CıPSPsPīPs P°PSC,PēPrPsC,Cı PSPμ C-CıPSCıC"; P»C-PeCıPIP°PSPSCİ
CıPēPjPīC,PspjP°C,PēCıPSPμ. P"C-P°P»C-P· PjPsP¶Pμ P±CıC,Pē PSPμPμC,,PμPeC,PēPIPSPēPj,
PsCıPeC-P»CHPePē PŸP°CıPsPrPμPeCı P·PSP°CıPSPsCḡ PjC-CḡPsCḡ
P·PİBḡ™ CıP·CıC"C,CHCıCı P· P±C-P»PeP°PjPē C,P° PSPμ PIPēCıPIP»CıC"C,CHCıCı Cı
PSPμP·PjC-PSPμPSPsPjCı PIPēPīP»CıPıC- Pİ CıPμCıC-. PıCḡPē PīPμCḡPμPrPsP·CıPIP°PSPSC-
PīPsPeP°P·P°PSP° P·P°PīP°P»CHPSP° PıC-PrC,CḡPēPjCıCḡCıP° C,PμCḡP°PıC-CıC, Cı C,PspjCı
CıPēCıP»C- PjPsPSC-C,PscḡPēPSPi P¶PēC,C,C"PİPs PIP°P¶P»PēPIPēC... PīPsPeP°P·PSPēPeC-Pİ.

PμPsP±C-CıPSC- CḡPμP°PeCıC-C—.

PμPsP±C-CıPSC- CḡPμP°PeCıC-C— P·P°P·PSP°CıPμPSPs P·P° CıP°CıC,Psc,Pscḡ C,P°PePēPj
CıPēPSPsPj: PrCıP¶Pμ CıP°CıC,Psc (≥1/10), CıP°CıC,Psc (PIC-Pr ≥1/100 PrPs <1/10),
PSPμCıP°CıC,Psc (PIC-Pr ≥1/1000 PrPs ≤1/100), CḡC-PrPePs (PIC-Pr ≥1/10000 PrPs ≤1/1000),
PrCıP¶Pμ CḡC-PrPePs (≤1/10 000), CıP°CıC,Psc,P° PSPμPIC-PrPsPjP° (PSP° PsCıPSPsPIC-
PSP°CıPIPSPēC... PrP°PSPēC... PSPμPjPsP¶P»PēIPs PICıC,P°PSPsPIPēC,Pē CıP°CıC,Psc,CıC
PIPēPSPēPePSPμPSPSCİ).

PŸP°P±P»PēCıCı 3B B B B B

PŸPēCıC,PμPjP° PsCḡPīP°PSC-Pİ	P§P°CıC,Psc,P°	PμPsP±C-CıPSP° CḡPμP°PeCıC-CıCı
P PsP·P»P°PrPē P· P±PsPeCı PeCḡPsPIC- C,P° P»C-PjC,,P°C,PēCıPSPsC— CıPēCıC,PμPjPē	P§P°CıC,Psc	PḡPSPμPjC-CıCı
P PsP·P»P°PrPē P· P±PsPeCı C-PjCıPSPSPsC— CıPēCıC,PμPjPē	PıPμCıP°CıC,Psc	PıC-PrPIPēC%oPμPSP° CıCıC,P»PēPIC-CıC,CH, P°PSPiC-PsPSPμPICḡPsC,PēCıPSPēPNē PSP°P±CḡCıPe, PeCḡPsPīPēPİBḡ™ CıPSPeP°
P PsP·P»P°PrPēB P· P±PsPeCı CıPēCıC,PμPjPē PsP±PjC-PSCı CḡPμCıPsPIPēPS C,P° C...P°CḡCıCıPIP°PSPSCİ	P§P°CıC,Psc	P—PjPμPSCēPμPSPSCİ P°PıPμC,PēC,CıCı
PıCıPēC...C-CıPSC- CḡPsP·P»P°PrPē	P§P°CıC,Psc	P—PSPēP¶PμPSPSCİ P»C-P±C-PrPs, PrPμPıCḡPμCıC-CıCı
P PsP·P»P°PrPē P· P±PsPeCı PSPμCḡPİPsPİPsC— CıPēCıC,PμPjPē	P§P°CıC,Psc	P—P°PıP°PjPsCḡPsCıPμPSPSCİ, CıPsPSP»PēPIC-CıC,CH
P PsP·P»P°PrPē P· P±PsPeCı CıPμCḡCıCıCı	P§P°CıC,Psc	PıCḡPsP»PsPSPiP°CıC-CıCı QT- C-PSC,PμCḡPIP°P»Cı (PrPēPİ. CḡPsP·PrC-P»Pē B«PhCıPsP±P»PēIPsCıC,C- P·P°CıC,PscCıCıPIP°PSPSCİB» C- B«P'P·P°C"PjPsPrC-CıCı P· C-PSCēPēPjPē P»C-PeP°CḡCıCHPePēPjPē P·P°CıPsP±P°PjPē C,P° C-PSCēC- PIPēPrPē PIP·P°C"PjPsPrC-PNēB»)
PŸCıPrPēPSPSC- PīPsCḡCıCēPμPSPSCİ	P"CıP¶Pμ CıP°CıC,Psc	PıCḡPēPıP»PēPIPē

P PsP·P»P°PrPë P· P±PsPeCf PsCḡPiP°PSC-PI CfPμCḡPμPrPsCfC,C-PSPS Cḡ, PiCḡCfPrPSPsC— PeP»C-C,PePë C,P° PrPëC...P°P»CHḡPSPsC— CfPëCfC,PμPjPë	PḡPμC‡P°CfC,Ps	P†PSC,PμCḡCfC,PëC†C-P°P»CHḡPSP° P»PμPiPμPSPμPIP° C...PIPsCḡPsP±P° ^{Pμ} (PiPsPIC-PrPsPjP»CḡP»PsCfCḡ PiCḡPs P»PμC,P°P»CHḡPSC- PIPëPiP°PrPePë).	
P PsP·P»P°PrPë P· P±PsPeCf C,CḡP°PIPSPsC— CfPëCfC,PμPjPë	P§P°CfC,Ps	P'C-P»CH Cf P¶PiPëPIPsC,C-, P·P°PiPsCḡ, PSCfPrPsC,P°, PrPëCfPiPμPiCfC-Cḡ, PjPμC,PμPsCḡPëP·Pj	
P" PμPiP°C,PsP±C-P»C-P°Cḡ PSC- CḡPsP·P»P°PrPë	P§P°CfC,Ps	P" PμPiP°C,PsC,PsPeCfPëC‡PSC-CfC,CH, P¶PiPsPIC,CḡPSPëC†Cḡ, PiC-PrPIPëC%PμPSPSCḡ P°PeC,PëPIPSPsCfC,C- C,CḡP°PSCfP°PjC-PSP°P. ^{P°}	
	P C-PrPePs	PμPμC‡C-PSPePsPIP° PSPμPrPsCfC,P°C,PSC-CfC,CH ^d (PiPsPIC-PrPsPjP»CḡP»PsCfCḡ PiCḡPs P»PμC,P°P»CHḡPSC- PIPëPiP°PrPePë)	
P PsP·P»P°PrPë P· P±PsPeCf C€PeC-CḡPë C,P° PiC-PrC€PeC-CḡPSPsC— PeP»C-C,PePsPIPëPSPë	P" CfP¶Pμ C‡P°CfC,Ps P§P°CfC,Ps	P'PëCfPëPi PḡP»PsPiPμC†C-Cḡ, PiC-CḡCfCfC,PëP·Pj/PIC-PrPSPsPIP»PμPSPSCḡ CḡPsCfC,Cf PIPsP»PsCfCfCḡ, CfCfC...C-CfC,CH C€PeC-CḡPë ^c , CfPIPμCḡP±C-P¶	
	PḡPμC‡P°CfC,Ps	P PμP°PeC†C-Cḡ PiC-PrPIPëC%PμPSPsC— C‡CfC,P»PëPIPsCfC,C- PrPs CfPIC-C,P»P°	
P PsP·P»P°PrPë P· P±PsPeCf PSPëCḡPsPe C,P° CfPμC‡PsPIPëPrC-P»CHḡPSP sC— CfPëCfC,PμPjPë	P§P°CfC,Ps	P" PμPjP°C,CfCḡC-Cḡ	
P PsP·P»P°PrPë P· P±PsPeCf CḡPμPiCḡPsPrCfPeC,PëPIPS PsC— CfPëCfC,PμPjPë C,P° PjPsP»PsC‡PSPëC... P·P°P»PsP·	P" CfP¶Pμ C‡P°CfC,Ps P§P°CfC,Ps	P"C-PSPμPePsPjP°CfC,C-Cḡ C,P° P±PsP»CHC‡C-CfC,CH PjPsP»PsC‡PSPëC... P·P°P»PsP. ^b	
		P·CḡPμPeC,PëP»CHḡPSP° PrPëCfC,,CfPSPeC†C-Cḡ	
P—P°PiP°P»CHḡPSC- PiPsCḡCfC€PμPSPSCḡ C,P° CfC,P°PS PjC-CfC†Cḡ PIPIPμPrPμPSPSCḡ	P" CfP¶Pμ C‡P°CfC,Ps P§P°CfC,Ps	PḡCfC,PμPSC-Cḡ PḡP°P±CḡCḡPe, P±C-P»CH Cf PiCḡCfPrCḡC...	
PḡP±CfC,PμP¶PμPSPSCḡ	P§P°CfC,Ps	P—P±C-P»CHC€PμPSPSCḡ PjP°CfPë C,C-P»P°	

^a P—PjC-PSPë P· P±PsPeCf PiPμC‡C-PSPePë CḡC-PrPePs P±CfPIP°CHC,CH C,CḡP¶PePëPjPë C,P°
C‡P°CfC,Ps PjPëPSP°CHC,CH P°P±Ps CfP»P°P±CēP°CHC,CH PiCḡPë PiCḡPsPrPsPIP¶PμPSPSC-
P»C-PeCfPIP°PSPSCḡ C‡Pë PiC-CfP»Cḡ PμPsPiPs PiCḡPëPiPëPSPμPSPSCḡ.

^b Pj P±C-P»CHCēPsCfC,C- PiP°C†C-C"PSC,C-PI, CḡPeC- PsC,CḡPëPjCfCHC,CH
PḡP°CfPsPrPμPeCf 150 PjPi CḡPe PjPsPSPSc,PμCḡP°PiC-CH, PiPsPIC-PrPsPjP»CḡP»PsCfCḡ
PiCḡPs PiC-PSPμPePsPjP°CfC,C-CH C,P°/P°P±Ps P±PsP»CHC‡C-CfC,CH PjPsP»PsC‡PSPëC...
P·P°P»PsP· Pj PrPsCfP»C-PrP¶PμPSPSCḡC... C†C- CfPëPjPiC,PsPjPë PIPIP°P¶P°P»PëCfCḡ
C,CḡP¶PePëPjPë Cf 5 % PiP°C†C-C"PSC,C-PI. P"C-PSPμPePsPjP°CfC,C-Cḡ PjPsP¶Pμ PSPμ
P·PSPëPePSCfC,Pë CfP°PjPsCfC,C-PμPSPs PiC-CfP»Cḡ PiCḡPëPiPëPSPμPSPSCḡ
C,PμCḡP°PiC-C—, PSP°PrC,Ps PiC-CfP»Cḡ C,CḡPëPIP°P»PsPiPs P»C-PeCfPIP°PSPSCḡ.

^c P§PμCḡPμP· CfC,P°PSPPrP°CḡC,Pë PePsPrCfPIP°PSPSCḡ, C%Ps
PIPëPePsCḡPëCfC,PsPICfCHC,CHCfCḡ Cf PrPsCfP»C-PrP¶PμPSPSCḡC... EPC,
PSPμP±P°P¶P°PSC- CḡPIPëC%P° B«CfCfC...PsC— CēPeC-CḡPëB» P±CfP»Pë

[illegible]

$P-P_{\pm}P_{\mu}C_{\eta}C-PiP^{\circ}C, P_{\ddot{e}}P_{\ddot{i}}C_{\eta}P_{\ddot{e}}C, P_{\mu}P_jP_{\ddot{i}}P_{\mu}C_{\eta}P^{\circ}C, C_{\acute{r}}C_{\eta}C- PSP_{\mu}PIP_{\ddot{e}}C\%P_{\mu}30B^{\circ}P_{\check{y}}.$
 $P-P_{\pm}P_{\mu}C_{\eta}C-PiP^{\circ}C, P_{\ddot{e}}C_{\acute{r}}PSP_{\mu}PrPsC_{\acute{r}}C, C_{\acute{r}}P_{\ddot{i}}PSPsP_jC_{\acute{r}}PrP\gg C_{\eta}PrC-C, P_{\mu}PN_{\ddot{e}}P_jC-C_{\acute{r}}C_{\dagger}C-.$

$P_jP_{\ddot{i}}P^{\circ}PePsPIP_{\ddot{e}}P^{\circ}.$ $P_{\mu}Ps14C, P^{\circ}P_{\pm}P\gg P_{\mu}C, PsPeC_{\acute{r}}P_{\pm}P\gg C-C_{\acute{r}}C, P_{\mu}C_{\eta}C-, P_{\ddot{i}}Ps2$
 $P_{\pm}P\gg C-C_{\acute{r}}C, P_{\mu}C_{\eta}P_{\ddot{e}}C_{\acute{r}}PeP^{\circ}C_{\eta}C, PsPSPSC-PN_{\ddot{e}}PePsC_{\eta}PsP_{\pm}C_{\dagger}C-.$

$P_{\check{y}}P^{\circ}C, P_{\mu}PiPsC_{\eta}C-C_{\eta}PIC-PrP_{\ddot{i}}C_{\acute{r}}C_{\acute{r}}PeC_{\acute{r}}.$ $P-P^{\circ}C_{\eta}P_{\mu}C_{\dagger}P_{\mu}P_{\ddot{i}}C, PsP_j.$

$P'P_{\ddot{e}}C_{\eta}PsP_{\pm}PSP_{\ddot{e}}Pe.$

$P_{\check{y}}C_{\acute{r}}C, C_{\eta}P^{\circ}P-P_{\mu}PSP_{\mu}PeP^{\circ}P\textcircled{P}_{\check{y}}P_{\dagger}C-P_jC-C, P_{\mu}Pr.$

$P_{\check{y}}C-C_{\acute{r}}C_{\dagger}P_{\mu}P\cdot PSP^{\circ}C...PsPrP_{\parallel}P_{\mu}PSPSC_{\eta}PIP_{\ddot{e}}C_{\eta}PsP_{\pm}PSP_{\ddot{e}}PeP^{\circ}C, P^{\circ}PN_{\ddot{e}}PsPiPs$
 $P^{\circ}PrC_{\eta}P_{\mu}C_{\acute{r}}P^{\circ}P_jC-C_{\acute{r}}C_{\dagger}C_{\eta}P_{\ddot{i}}C_{\eta}PsPIP^{\circ}PrP_{\parallel}P_{\mu}PSPSC_{\eta}PrC-C_{\eta}P\gg CH_PSPsC_{\acute{r}}C, C-.$

$P_{\check{y}}C-P\gg PeP PsP^{\circ}PrP'C-P\cdot PSP_{\mu}C_{\acute{r}}P_{\mu}P^{\circ}C_{\eta}Pe, P_{\check{y}}P^{\circ}PePeP\gg C_{\acute{r}}C,,C-P\gg Pr, SK102NA,$
 $P'P_{\mu}P\gg P_{\ddot{e}}PeP^{\circ}P'C_{\eta}P_{\ddot{e}}C, P^{\circ}PSC-C_{\eta}.$