

PhPSPPrP°PSCrPμC,CḡP̄sPS PiC-PrCḡPsC...P»PsCḡP̄P̄Pr Bḡ“ C†Pμ P°PSC,P°PiPsPSC-CrC,
CḡPμC†PμPiC,P̄sCḡC-PI CrPμCḡPsC,P̄sPSC-PSCr PiC-PrC,P̄P̄PiCr 5P̄K̄P̄ȳ₃, P̄P̄PμC...P°PSC-P·PjP̄P̄
PiCḡPsC,P̄P̄±P»CḡPIP°P»CḡPSP̄sC— PrC-C— PsCrC,P°C,P̄sC†PSP̄s PSPμ
PICrC,P°PSP̄sPIP»PμPSC-. P'C-PrPsPjPs, C%Ps P·P°CrC,P̄sCrCrPIP°PSPSCḡ
PiCḡPsPiPuPSPμPIP̄sC— C- C†P̄C,P̄sC,P̄sPeCrP̄C†PSP̄sC— C...C-PjC-P̄sC,PμCḡP°PiC-C—

P[°]P[°]PSC- PrPsCfP»C-PrP¶PµPSPSC¶ PjPµC, P[°]P±PsP»C-P·PjCf PsPSPrP[°]PSCfPµC, C¶PsPSCf *in vitro* CfPIC-PrC±P[°]C, CHb, C%oPs PIC-PS C[°] CfCfP±CfC, C¶P[°]C, PsPj C,, PµC¶PjPµPSC, C-PI CfPëCfC, PµPjPë C†PëC, PsC...C¶PsPjCf P 450 PiPµC±C-PSPePë P»C¶PrPëPSPë, PIPeP»C¶C±P[°]C¶C±Pë CYP1A2, CYP2D6 C- CYP3A4. P¶PµC, P[°]P±PsP»C-P·Pj PsPSPrP[°]PSCfPµC, C¶PsPSCf P·PrC-PNëCfPSC¶C[°]C, CHCfC¶ C±P[°]CfC, C-CëPµ C,, PµC¶PjPµPSC, PsPj CYP3A4. PhCfPeC-P»CHPePë PjPµC, P[°]P±PsP»C-P·Pj PsPSPrP[°]PSCfPµC, C¶PsPSCf PjPsP¶Pµ P·PrC-PNëCfPSC¶PIP[°]C, PëCfC¶ PeC-P»CHPePsPjP[°] C,, PµC¶PjPµPSC, P[°]PjPë CfPëCfC, PµPjPë C†PëC, PsC...C¶PsPjCf P 450, C, Ps PiC¶Pë PSPµPrPsCfC, P[°]C, PSPsCfC, C- PsPrPSPsPiPs P· C,, PµC¶PjPµPSC, C-PI CfCfPjP[°]C¶PSPëPNë

PeP»C-CHPµPSCÍ PsPSPPrP°PSCÍPµC,CHPsPSCÍ CÍCíC,C,C"PIPs PSPµ P·PjC-PSCHC"C,CHCÍCÍ, PsCÍPeC-P»CHPePë PSPµPrPsCÍC,P°C±P° PsPrPSPsPiPs P· C„PµCHPjPµPSC,C-PI P±CíPrPµ PePsPjPiPµPSCÍPsPIP°PSP° C-PSC€PëPjPë C„PµCHPjPµPSC,P°PjPë CÍPëCÍC,PµPjPë PjPµC,P°P±PsP»C-P·PjCí.

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

PµPsPeP°P·P°PSPSCÍ.

PkCíPrPsC,P° C,P° P±P»CHPIP°PSPSCÍ, CÍPíCHPëC±PëPSPµPSC- C†PëC,PsC,PsPeCÍPëC±PSPsCÍ C...C-PjC-PsC,PµCHP°PíC-C"CÍ, PíCHPsPjPµPSPµPIPsCÍ C,PµCHP°PíC-C"CÍ. PµCHPsC„C-P»P°PeC,PëPeP° PSCíPrPsC,Pë C,P° P±P»CHPIP°PSPSCÍ Cí PíC-CÍP»CÍPsPíPµCHP°C†C-PNëPSPsPjCí PíPµCHC-PsPrC-.

PµCHPsC,PëPíPsPeP°P·P°PSPSCÍ.

PµC-PrPIPëC%PµPSP° C±CíC,P»PëPIC-CÍC,CH PrPs PePsPjPiPsPSPµPSC,C-PI PíCHPµPiP°CHP°C,Cí C,P° PrPs C-PSC€PëC... CÍPµP»PµPeC,PëPIPSPëC... P°PSC,P°PiPsPSC-CÍC,C-PI 5PáPÿ₃-CHPµC†PµPíC,PsCHC-PI CÍPµCHPsC,PsPSC-PSCí.

PÿCÍP¶PeC- PíPsCHCíC€PµPSPSCÍ C„CíPSPeC†C-C— PíPµC±C-PSPePë, C...C-CHCíCHPiC-C±PSC- PsPíPµCHP°C†C-C— PSP° C±PµCHPµPIPsC-PNë PíPsCHPsP¶PSPëPSC-.

P—P°CÍC,PsCÍCíPIP°PSPSCÍ PsPSPPrP°PSCÍPµC,CHPsPSCÍ CHP°P·PsPj P· P°PíPsPjPsCHC„C-PSPsPj PíCHPsC,PëPíPsPeP°P·P°PSPµ, PsCÍPeC-P»CHPePë PíCHPë C—C... CÍCíPjC-CÍPSPsPjCí P·P°CÍC,PsCÍCíPIP°PSPSC- CÍPíPsCÍC,PµCHC-PiP°P»PëCÍCÍ PIPëPíP°PrPePë CÍPëP»CHPSPsC— P°CHC,PµCHC-P°P»CHPSPsC— PiC-PíPsC,PµPSP·C-C— C,P° PIC,CHP°C,Pë CÍPIC-PrPsPjPsCÍC,C-.

P'P·P°C"PjPsPrC-CÍ P· C-PSC€PëPjPë P»C-PeP°CHCÍCHPePëPjPë P·P°CÍPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C"PjPsPrC-PNë.

PÿPíPµC†C-P°P»CHPSC- PrPsCÍP»C-PrP¶PµPSPSCÍ PíPsPeP°P·P°P»Pë, C%Ps PsPSPPrP°PSCÍPµC,CHPsPS PSPµ PIP·P°C"PjPsPrC-C" P· P°P»PePsPiPsP»PµPj, C,PµPjP°P·PµPíP°PjPsPj, C„CíCHPsCÍPµPjC-PrPsPj, C,CHP°PjP°PrPsP»PsPj P°P±Ps PíCHPsPiPsC„PsP»PsPj.

PhPSPPrP°PSCÍPµC,CHPsPS PjPµC,P°P±PsP»C-P·CíC"C,CHCÍCÍ CHC-P·PSPëPjPë C„PµCHPjPµPSC,P°PjPë C†PëC,PsC...CHPsPjPsPjCí P 450 PíPµC±C-PSPePë: CYP3A4, CYP2D6 C,P° CYP1A2.

P—P°PIPrCÍPePë CHC-P·PSPsPjP°PSC-C,PSPsCÍC,C- C„PµCHPjPµPSC,C-PI PjPµC,P°P±PsP»C-P·PjCí PsPSPPrP°PSCÍPµC,CHPsPSCí PiP°P»CHPjCíPIP°PSPSCÍ P°P±Ps P·PjPµPSC€PµPSPSCÍ P°PeC,PëPIPSPsCÍC,C- PsPrPSPsPiPs P· PSPëC... (PSP°PíCHPëPeP»P°Pr PiPµPSPµC,PëC±PSPëPNë PrPµC„C-C†PëC, CYP2D6) Cí P·PIPëC±P°PNëPSPëC... CíPjPsPIP°C... PePsPjPiPµPSCÍCíC"C,CHCÍCÍ C-PSC€PëPjPë C„PµCHPjPµPSC,P°PjPë C- PSPµ P±CíPrPµ

PjP°C,Pë PIPiP»PëPICr P°P±Ps PIPiP»PëPI PSP° P·P°PiP°P»CHbPSPëPNë PeP»C-CḡPμPSCr
 PeCḡPμP°P,C,PëPSC-PSCr P±CfPrPμ PSPμP·PSP°C±PSPëPj, PīCḡPsC,Pμ PSPμP·PIP°P¶P°CḡC±Pë
 PSP° CḡC-P·PSPsPjP°PSC-C,PSC-CrC,CH PjPμC,P°P±PsP»C-C±PSPëC... C,,PμCḡPjPμPSC,C-PI, Cr
 PīP°C†C-C”PSC,C-PI, CḡPeC- PsC,CḡPëPjCrPIP°P»Pë C-PSPrCrPeC,PsCḡPë CYP3A4 (C,PsP±C,Ps
 C,,PμPSC-C,PsC—PS, PeP°CḡP±P°PjP°P·PμPīC-PS C,P° CḡPëC,,P°PjPīC-C†PëPS),
 PIC-PrP·PSP°C±PμPSPs P·P±C-P»CHbCεPμPSPSCḡ PeP»C-CḡPμPSCrCr
 PsPSPrP°PSCrPμC,CḡPsPSCr, PīCḡPëPNëPSCḡC,PsPiPs PīPμCḡPsCḡP°P»CHbPSPs, C,P°
 P·PSPëP¶PμPSPSCḡ Cr PīP»P°P·PjC- PeCḡPsPIC- PNëPsPiPs PePsPSC†PμPSC,CḡP°C†C-C—.

*P>C-PeP°CḡCḡCHbPeC- P·P°CḡPsP±Pë, C%Ps PīPsPrPsPIP¶CḡCḡC,CH C-PSC,PμCḡPIP°P» QTc. Pj
 CḡP°P·C- PsPrPSPsC±P°CḡPSPsPiPs P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PsPSPrP°PSCrPμC,CḡPsPSCr P·
 C-PSCεPëPjPë PīCḡPμPīP°CḡP°P,C,P°PjPë, CḡPeC- PīPsPrPsPIP¶CḡCḡC,CH C-PSC,PμCḡPIP°P»
 QTc, PīPsC,CḡC-P±PSPs CḡPμC,PμP»CHbPSPs P·PIP°P¶PëC,Pë PsC±C-PeCḡPIP°PSPëPNë
 C,PμCḡP°PīPμPIC,PëC±PSPëPNë PμC,,PμPeC, C,P° PīPsC,PμPSC†C-PNëPSPëPNë CḡPëP·PëPe.*

Pj PSPëP¶C±PμP·P°P·PSP°C±PμPSPsPjCr CḡPīPëCḡPeCḡ PīCḡPμPrCḡC,P°PIP»PμPSPs
 P»C-PeP°CḡCḡCHbPeC- P·P°CḡPsP±Pë, PīPsPībḡ™ CḡP·P°PSC- P· PīCḡPsP»PsPSPiP°C†C-C”Cḡ
 QTc C-PSC,PμCḡPIP°P»Cr C,P°/P°P±Ps C,CḡC-PīPsC,C-PSPSCḡPj/PjPμCḡPμC...C,C-PSPSCḡPj
 CεP»CḡPSPsC±PeC-PI (*B«torsade de pointesB»*). PŸPμCḡPμPr P»C-PeP°CḡCḡCHbPePëC...
 P·P°CḡPsP±C-PI PīPμCḡPμCḡP°P...PsPIP°PSPëC... C,,P°CḡPjP°PePsP»PsPiC-C±PSPëC...
 PeP»P°CḡC-PI PSPμ PsP±PsPībḡ™ CḡP·PePsPiPs PICḡC- PīCḡPμPīP°CḡP°P,Pë
 PīPsPībḡ™ CḡP·P°PSC- P· PīPsPrPsPIP¶PμPSPSCḡPj C-PSC,PμCḡPIP°P»Cr QTc C,P°/P°P±Ps
B«torsade de pointesB»:

- PeP»P°Cḡ IA, P°PSC,PëP°CḡPëC,PjC-C±PSC- (C...C-PSC-PrPëPS, PīCḡPsPeP°C—PSP°PjC-Pr,
 PrPëP·PsPīC-CḡP°PjC-Pr);

- PeP»P°Cḡ III, P°PSC,PëP°CḡPëC,PjC-C±PSC- (P°PjC-PsPrP°CḡPsPS, CḡPsC,P°P»PsP»,
 C-P±CḡC,PëP»C-Pr, PrCḡPsPSPμPrP°CḡPsPS);

- PeP»P°Cḡ IC, P°PSC,PëP°CḡPëC,PjC-C±PSC- (C,,P»PμPeP°C—PSC-Pr, PīCḡPsPīP°C,,PμPSPsPS);

- PīCḡPsC,PëP±P»CḡPIP°P»CHbPSC- (PrPsP»P°CḡPμC,CḡPsPS, PrCḡPsPīPμCḡPëPrPsP»,
 C...P»PsCḡPīCḡPsPjP°P·PëPS, PīCḡPsC...P»PsCḡPīPμCḡP°P·PëPS);

- C-PSPiC-P±C-C,PsCḡPë C,PëCḡPsP·PëPSPeC-PSP°P·Pë (PIP°PSPrPμC,P°PSC-P±,
 CḡCḡPSC-C,PëPSC-P±, PSC-P»PsC,PëPSC-P±, P»P°PīP°C,PëPSC-P±);

- P°PSC,PëPīCḡPëC...PsC,PëC±PSC- PīCḡPμPīP°CḡP°P,Pë (C...P»PsCḡPīCḡPsPjP°P·PëPS,
 PīC-PjPsP·PëPr, PīP°P»PsPīPμCḡPëPrPsP», P·PëPīCḡP°P·PëPrPsPS);

- P°PSC,PëPrPμPīCḡPμCḡP°PSC,Pë (C†PëC,P°P»PsPīCḡP°Pj, C,,P»CḡPsPeCḡPμC,PëPS,
 PIPμPSP»P°C,,P°PeCḡPëPS, C,CḡPëC†PëPeP»C-C±PSC-/C,PμC,CḡP°C†PëPeP»C-C±PSC-
 P°PSC,PëPrPμPīCḡPμCḡP°PSC,Pë, C,P°PeC- CḡPe P°PjC-C,CḡPëPīC,PëP»C-PS,
 C-PjC-PīCḡP°PjC-PS, PjP°PīCḡPsC,PëP»C-PS);

- PsPīC-PsC—PrPë (PjPμC,P°PrPsPS);

- PrPsPjPīPμCḡPëPrPsPS;

- PjP°PeCḡPsP»C-PrPSC- P°PSC,PëP±C-PsC,PëPePë C,P° P°PSP°P»PsPiPë
 (PμCḡPëC,CḡPsPjC-C†PëPS, PeP»P°CḡPëC,CḡPsPjC-C†PëPS, C,PμP»C-C,CḡPsPjC-C†PëPS,
 C,P°PeCḡPsP»C-PjCḡCḡ);

- P°PSC,PëP±C-PsC,PëPePë PeP»P°CÍCf C...C-PSPsP»PsPSC-PI
(PjPsPeCÍPëC,,P»PsPeCÍP°C†PëPS, P»PμPIPsC,,P»PsPeCÍP°C†PëPS,
C†PëPíCĤPsC,,P»PsPeCÍP°C†PëPS);
- PíCĤPsC,PëPjP°P»CĬCĤC-PNëPSC- (C...C-PSC-PS, C...P»PsCĤPsC...C-PS);
- P°P·PsP»CHPSC- PíCĤPsC,PëPíCĤPëP±PePsPIC- PíCĤPμPíP°CĤP°C,Pë
(PePμC,PsPePsPSP°P·PsP», C,,P»CfPePsPSP°P·PsP», PIPsCĤPëPePsPSP°P·PsP»);
- C-PSPiC-P±C-C,PsCĤPë PíC-CÍC,PsPSPrPμP°C†PμC,PëP»P°P·Pë (PIPsCĤPëPSPsCÍC,P°C,);
- P°PíPsPSC-CÍC,Pë β₂-P°PrCĤPμPSPsCĤPμC†PμPíC,PsCĤC-PI (CÍP°P»CHPjPμC,PμCĤPsP»,
C,,PsCĤPjPsC,PμCĤPsP»).

*PμCĤPμPíP°CĤP°C,Pë, C%oPs CÍPíCĤPëC†PëPSCĬCĤC,CH PíPsCĤC¿C€PμPSPSCĬ
P±P°P»P°PSCÍC¿ PμP»PμPeC,CĤPsP»C-C,C-PI. PŸP»C-Pr CÍPSPëPeP°C,Pë
PsPrPSPsC†P°CÍPSPsPíPs P·P°CÍC,PsCÍCfPIP°PSPSCĬ PsPSPrP°PSCÍPμC,CĤPsPSCr P·
PíCĤPμPíP°CĤP°C,P°PjPë, CĬPeC- PjPsP¶CfC,CH PíPsCĤCfC€PëC,Pë P±P°P»P°PSCÍ
PμP»PμPeC,CĤPsP»C-C,C-PI. PμCĤPëPeP»P°PrPë C,P°PePëC... P»C-PeP°CĤCÍCHPePëC...
P·P°CÍPsP±C-PI:*

- PíPμC,P»CHPsPIC-, C,C-P°P·PëPrPSC- C,P° C,C-P°P·PëPrPsPíPsPrC-P±PSC-
PrC-CfCĤPμC,PëPePë;
- PíCĤPsPSPsCÍPSC- P·P°CÍPsP±Pë C,P° PeP»C-P·PjPë;
- P°PjC,,PsC,PμCĤPëC†PëPS P’;
- PIPëCÍPsPeC- PrPsP·Pë PePsCĤC,PëPePsCÍC,PμCĤPsC—PrC-PI.

*PkP°PIPμPrPμPSC- PIPëC%oPμ CÍPíPëCÍPePë PíPsC,PμPSC†C-PNëPSPs
PIP·P°C”PjPsPrC-CĤC†PëC... PíCĤPμPíP°CĤP°C,C-PI PSPμ C” PIPëC†PμCĤPíPSPëPjPë.
PkPμPsP±C...C-PrPSPs CÍP»C-PrPeCfPIP°C,Pë P·P° CÍCfC†P°CÍPSPëPjPë PrP¶PμCĤPμP»P°PjPë
C-PSC,,PsCĤPjP°C†C-C— PrP»CĬ PIPëCĬPIP»PμPSPSCĬ PSPsPIPëC... P»C-PeP°CĤCÍCHPePëC...
P·P°CÍPsP±C-PI, CĬPeC- PíPsPrPsPIP¶CfCĤC,CH C-PSC,PμCĤPIP°P» QtC P°P±Ps
CÍPíCĤPëC†PëPSCĬCĤC,CH PμP»PμPeC,CĤPsP»C-C,PSC- PíPsCĤCfC€PμPSPSCĬ.*

*PŸCĤP°PjP°PrPsP». P—P° PrP°PSPëPjPë PSPμPIPμP»PëPePsC— PeC-P»CHPePsCÍC,C-
PeP»C-PSC-C†PSPëC... PrPsCÍP»C-PrP¶PμPSCĤ, PsPSPrP°PSCÍPμC,CĤPsPS PjPsP¶Pμ
P·PjPμPSC€CfPIP°C,Pë P°PSP°P»PíPμC,PëC†PSPëPNë PμC,,PμPeC, C,CĤP°PjP°PrPsP»Cf.*

*PĥPíPsPjPsCĤC,,C-PS. P—P°CÍC,PsCÍCfPIP°PSPSCĬ PsPSPrP°PSCÍPμC,CĤPsPSCr CĤP°P·PsPj P·
P°PíPsPjPsCĤC,,C-PSCr PíC-PrCĤPsC...P»PsCĤPëPrPsPj PíCĤPsC,PëPíPsPeP°P·P°PSPμ,
PsCÍPeC-P»CHPePë CÍPíPsCÍC,PμCĤC-PíP°P»PëCÍCĬ PIPëPíP°PrPePë CÍPëP»CHPSPsC—
PíC-PíPsC,PμPSP·C-C— C,P° PIC,CĤP°C,Pë CÍPIC-PrPsPjPsCÍC,C- PíC-Pr C†P°CÍ
CÍCfPjC-CÍPSPsPíPs P·P°CÍC,PsCÍCfPIP°PSPSCĬ (PrPëPI. CĤPsP·PrC-P»
B«PμCĤPsC,PëPíPsPeP°P·P°PSPSCĬB»).*

*PŸPμCĤPsC,PsPSC-PSPμCĤPíC-C†PSC- PíCĤPμPíP°CĤP°C,Pë. PíPe C- CÍ CĤP°P·C-
P·P°CÍC,PsCÍCfPIP°PSPSCĬ C-PSC€PëC... CÍPμCĤPsC,PsPSC-PSPμCĤPíC-C†PSPëC...
P°PíPμPSC,C-PI, CÍPμCĤPsC,PsPSC-PSPsPIPëPNë CÍPëPSPrCĤPsPj,
PíPsC,PμPSC†C-PNëPSPs PSPμP±PμP·PíPμC†PSPëPNë PrP»CĬ P¶PëC,C,CĬ CÍC,P°PS,*

PjPsP¶Pµ PIPëPSPëPePSCrC,Pë PïCtjPë P·P°CÍC,PsCÍCrPIP°PSPSC-
PïCtjPsC,PëP±P»CtHIPIP°P»CHbPSPsPiPs P°PSC,P°PiPsPSC-CÍC,P° CtjPµC†PµPïC,PsCtjC-PI
CÍPµCtjPsC,PsPSC-PSCr 5PkPÿ₃, PïCtjPë PïPsC”PrPSP°PSPSC- P· C-PSC€PëPjPë
PïCtjPµPïP°CtjP°C,P°PjPë, C¶PeC- PjPsP¶CÍC,CH PIPïP»PëPIP°C,Pë PSP°
CÍPëCÍC,PµPjCr CÍPµCtjPsC,PsPSC-PSPµCtjPiC-C±PSPëC...
PSPµPNëCtjPsPjPµPrC-P°C,PsCtjC-PI (PIPeP»CtHC±P°CtHC±Pë C,CtjPëPïC,P°PSPë,
CÍPµP»PµPeC,PëPIPSC- C-PSPiC-P±C-C,PsCtjPë P·PIPsCtjPsC,PSPsPiPs
P·P°C...PsPïP»PµPSPSC¶ CÍPµCtjPsC,PsPSC-PSCr (PÿP†P—P—Pÿ),
C-PSPiC-P±C-C,PsCtjPë P·PIPsCtjPsC,PSPsPiPs P·P°C...PsPïP»PµPSPSC¶
CÍPµCtjPsC,PsPSC-PSCr C,P° PSPsCtjP°PrCtjPµPSP°P»C-PSCr (P†P—P—PÿPk),
P»C-C,C-PNë, CÍPëP±CrC,CtjP°PjC-PS, C„PµPSC,P°PSC-P» C,P° PNëPsPiPs
P°PSP°P»PsPïPë, PrPµPeCÍC,CtjPsPjPµC,PsCtjC„P°PS, C,CtjP°PjP°PrPsP»,
C,P°PïPµPSC,P°PrPsP», PjPµPïPµCtjPëPrPëPS, PjPµC,P°PrPsPS C,P° PïPµCtjC,P°P·PsC†PëPS
P°P±Ps P·PIC-CtjPsP±C-PNë (*Hypericum perforatum*)), P° C,P°PePsP¶ P· PïCtjPµPïP°CtjP°C,P°PjPë,
C¶PeC- P·PSPëP¶CÍCtHC,CH PjPµC,P°P±PsP»C-P·Pj CÍPµCtjPsC,PsPSC-PSCr (C,P°PeC- C¶Pe
C-PSPiC-P±C-C,PsCtjPë PµPjPh, PIPeP»CtHC±P°CtHC±Pë P»C-PSPµP·PsP»C-Pr
(P°PSC,PëP±C-PsC,PëPe, C¶PePëPNë C” PsP±PsCtjPsC,PSPëPj PSPµCÍPµP»PµPeC,PëPIPSPëPj
C-PSPiC-P±C-C,PsCtjPsPj PµPjPh) C,P° PjPµC,PëP»PµPSPsPIPëPNë CÍPëPSC-PNë) (PrPëPI.
CtjPsP·PrC-P» B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCrPIP°PSPSC¶B»).

PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCzPIP°PSPSC¶.

PhPSPPrP°PSCÍPµC,CtjPsPS PSPµPµC„PµPeC,PëPIPSPëPNë PrP»C¶
PïPsPïPµCtjPµPrP¶PµPSPSC¶ PSCrPrPsC,Pë C- P±P»CtHIPIP°PSPSC¶ PïCtjPë
P·P°C...PëC,CrPIP°PSPSC-.

P„ PrPsCÍPIC-Pr PïPµCtjPµC...CtjPµCÍPSPsC— PiC-PïPµCtjC±CrC,P»PëPIPsCÍC,C- PrPs
CtjC-P·PSPëC... P°PSC,P°PiPsPSC-CÍC,C-PI CtjPµC†PµPïC,PsCtjC-PI 5PkPÿ₃. PÿPsPjCr PïCtjPë
PSP°C¶PIPSPsCÍC,C- PiC-PïPµCtjC±CrC,P»PëPIPsCÍC,C- PrPs PsPrPSPsPiPs P·
P°PSC,P°PiPsPSC-CÍC,C-PI CtjPµC†PµPïC,PsCtjC-PI 5PkPÿ₃ P°PSP°P»PsPiC-C±PSP°
CtjPµP°PeC†C-C¶ PrPs C-PSC€PëC... B P°PSC,P°PiPsPSC-CÍC,C-PI PjPsP¶Pµ P±CrC,Pë
P±C-P»CHbC€ PIPëCtjP°P¶PµPSP° PIPSP°CÍP»C-PrPsPe PïPµCtjPµC...CtjPµCÍPSPëC...
CtjPµP°PeC†C-PNë. Pj CtjP°P·C- PSP°C¶PIPSPsCÍC,C- PSP°PIC-C,CH CÍP»P°P±PePsC—
CtjPµP°PeC†C-C— PiC-PïPµCtjC±CrC,P»PëPIPsCÍC,C- PrPs PsPrPSPsPiPs P·
PïCtjPµPïP°CtjP°C,C-PI P°PSC,P°PiPsPSC-CÍC,C-PI 5PkPÿ₃-CtjPµC†PµPïC,PsCtjC-PI PSPµ
CtjPµPePsPjPµPSPrCrC”C,CHCÍC¶ PNëPsPiPs P·PjC-PSCtHIPIP°C,Pë PSP° C-PSC€PëPNë,
PICtjP°C...PsPICrCtHC±Pë PjPsP¶P»PëPIC-CÍC,CH PïPsCÍPëP»PµPSPSC¶ CtjPµP°PeC†C-C—
PiC-PïPµCtjC±CrC,P»PëPIPsCÍC,C-.

P C-PrPePs PïCtjPë P·P°CÍC,PsCÍCrPIP°PSPSC- PsPSPPrP°PSCÍPµC,CtjPsPSCr
CÍPïPsCÍC,PµCtjC-PiP°CtHC,CHCÍC¶ C,PëPjC±P°CÍPsPIC- P·PjC-PSPë P·PµP”,
PIPeP»CtHC±P°CtHC±Pë PïPsPrPsPIP¶PµPSPSC¶ C-PSC,PµCtjPIP°P»Cr QT,
P·P°P»PµP¶PSPs PIC-Pr PrPsP·Pë C,P° C€PIPëPrPePsCÍC,C- C-PSC„CrP·C-C—. P—P°
PrP°PSPëPjPë PïPsCÍC,PjP°CtjPePµC,PëPSPiPsPIPsPiPs CÍPïPsCÍC,PµCtjPµP¶PµPSPSC¶,
PïPsPIC-PrPsPjP»C¶P»Pë PïCtjPs PIPëPïP°PrPePë
C,CtjC-PïPsC,C-PSPSC¶/PjPµCtjPµC...C,C-PSPSC¶ C€P»CrPSPsC±PeC-PI (*B«torsade de
pointesB»*) PïCtjPë P·P°CÍC,PsCÍCrPIP°PSPSC- PsPSPPrP°PSCÍPµC,CtjPsPSCr, C,PsPjCr

СГР»С-Рr P· PsP±PμCḡPμP¶PSC-СГC, Cḡ P·P°СГC, PsСГPsPICrPIP°C, Pë
PiCḡPμPiP°CḡP°C, PiP°C†C-C"PSC, P°Pj, CḡPeC- PjP°CḡC, Cḡ P°P±Ps Cr CḡPePëC...
PjPsP¶Pμ CḡPsP·PIPëPSCrC, PëСГCḡ PiPsPrPsPIP¶PμPSPSCḡ C-PSC, PμCḡPIP°P»Cr QT.
P'PëPiP°PrPePë *B«torsade de pointesB»* PjPsP¶CrC, Cḡ P±CrC, Pë
P±PμP·СГPëPjPiC, PsPjPSPëPjPë P°P±Ps СГCrPiCḡPsPIPsPrP¶CrPIP°C, PëСГCḡ
P·P°PiP°PjPsCḡPsC†PμPSPSCḡPj, PiCḡPëСГPePsCḡPμPSPëPj СГPμCḡC†PμP±PëC, C, CḡPj,
PSPμPiCḡPëC, PsPjPSC-СГC, Cḡ P°P±Ps СГCrPrPsPjP°PjPë; C†PμPNë СГC, P°PS PjPsP¶Pμ
PiCḡPsPiCḡPμСГCrPIP°C, Pë PrPs C,, C-P±CḡPëP»CḡC†C-C— CëP»CrPSPsC†PeC-PI C-
CḡP°PiC, PsPIPsC— СГPμCḡC†PμPIPsC— СГPjPμCḡC, C-.

PŸP»C-Pr CrPSPëPeP°C, Pë P·P°СГC, PsСГCrPIP°PSPSCḡ PsPSPrP°PSCrPμC, CḡPsPSCr
PiP°C†C-C"PSC, P°Pj P· PICḡPsPrP¶PμPSPëPj СГPëPSPrCḡPsPjPsPj PiPsPrPsPIP¶PμPSPSCḡ QT.
PhPSPrP°PSCrPμC, CḡPsPS СГP»C-Pr P·P°СГC, PsСГPsPICrPIP°C, Pë P·
PsP±PμCḡPμP¶PSC-СГC, Cḡ PrP»Cḡ P»C-PeCrPIP°PSPSCḡ PiP°C†C-C"PSC, C-PI C-P·
PiPsCḡCrCëPμPSPSCḡPjPë СГPμCḡC†PμPIPsPiPs CḡPëC, PjCr P°P±Ps PiCḡPsPIC-PrPSPsСГC, C-,
PiP°C†C-C"PSC, P°Pj, CḡPePëPj P·P°СГC, PsСГPsPICrCḡC, Cḡ PiCḡPsC, PëP°CḡPëC, PjC-C†PSC-
PiCḡPμPiP°CḡP°C, Pë P°P±Ps β-P±P»PsPeP°C, PsCḡPë C, P° CḡPeC- PjP°CḡC, Cḡ P°P±Ps Cr
CḡPePëC... PjPsP¶Pμ CḡPsP·PIPëPSCrC, PëСГCḡ PiPsPrPsPIP¶PμPSPSCḡ C-PSC, PμCḡPIP°P»Cr
QT, PIPëP»CḡC†P°CḡC†Pë PiP°C†C-C"PSC, C-PI P· PiPsCḡCrCëPμPSPSCḡPj
PμP»PμPeC, CḡPsP»C-C, PSPsPiPs P±P°P»P°PSCrCr, P·P°СГC, C-PNëPSPsCḡ СГPμCḡC†PμPIPsCḡ
PSPμPrPsСГC, P°C, PSC-СГC, Cḡ, P±CḡP°PrPëP°CḡPëC, PjC-CḡPjPë P°P±Ps PiP°C†C-C"PSC, C-PI,
CḡPeC- P»C-PeCrCḡC, CḡСГCḡ C-PSCëPëPjPë PiCḡPμPiP°CḡP°C, P°PjPë, C%Ps PjPsP¶CrC, Cḡ
СГPiCḡPëC†PëPSCḡC, Pë PiPsPrPsPIP¶PμPSPSCḡ C-PSC, PμCḡPIP°P»Cr QT P°P±Ps
PiPsCḡCrCëPμPSPSCḡ PμP»PμPeC, CḡPsP»C-C, PSPsPiPs P±P°P»P°PSCrCr. PμPμCḡPμPr
PiPsC†P°C, PePsPj P·P°СГC, PsСГCrPIP°PSPSCḡ СГP»C-Pr СГPePsCḡPμPiCrPIP°C, Pë
PiC-PiPsPeP°P»C-C"PjC-Cḡ C, P° PiC-PiPsPjP°PiPSC-C"PjC-Cḡ.

PμCḡPëPeP»P°PrPë C,, P°PeC, PsCḡC-PI CḡPëP·PëPeCr CḡPsP·PIPëC, PeCr
C, CḡC-PiPsC, C-PSPSCḡ/PjPμCḡPμC...C, C-PSPSCḡ CëP»CrPSPsC†PeC-PI: P¶C-PSPsC†P°
СГC, P°C, Cḡ; PIC-Pe PIC-Pr
65 CḡPsPeC-PI; P±P°P·PsPIPμ PiPsPrPsPIP¶PμPSPSCḡ C-PSC, PμCḡPIP°P»Cr QT/QTc;
PSP°CḡPIPSC-СГC, Cḡ PiPμPSPμC, PëC†PSPëC... PiPsCḡCrCëPμPSCḡ C-PsPSPSPëC...
PeP°PSP°P»C-PI СГPμCḡC†Cḡ P°P±Ps CḡPμPiCrP»CḡC, PsCḡPSPëC... P±C-P»PeC-PI;
PSP°CḡPIPSC-СГC, Cḡ Cr СГC-PjPμPNëPSPsPjCr P°PSP°PjPSPμP·C- CḡP°PiC, PsPIPsC—
СГPμCḡC†PμPIPsC— СГPjPμCḡC, C- Cr PIC-C†C- PrPs 50 CḡPsPeC-PI;
P·P°C...PIPsCḡCḡPIP°PSPSCḡ СГPμCḡC†Cḡ (C-CëPμPjC-Cḡ PjC-PsPeP°CḡPrP° P°P±Ps
C-PSC,, P°CḡPeC,, PiC-PiPμCḡC, CḡPsC,, C-C— P»C-PIPsPiPs CëP»CrPSPsC†PeP°,
PeP°CḡPrC-PsPjC-PsPiP°C, C-Cḡ, C...PIPsCḡPsP±Pë СГPëСГC, PμPjPë PiCḡPsPIC-PrPSPsСГC, C-);
PSP°CḡPIPSC-СГC, Cḡ P°CḡPëC, PjC-PNë (PsСГPsP±P»PëPIPs CëP»CrPSPsC†PePsPIPëC...
P°CḡPëC, PjC-PNë, C,, C-P±CḡPëP»CḡC†C-C— PiPμCḡPμPrСГPμCḡPrCḡ);
P±CḡP°PrPëPeP°CḡPrC-Cḡ (PjPμPSCëPμ 50 CrPrP°CḡC-PI/C...PI); PiPsСГC, CḡC-
PSPμPICḡPsP»PsPiC-C†PSC- CḡPsP·P»P°PrPë (PIPSCrC, CḡC-CëPSCḡPsC†PμCḡPμPiPSC- P°P±Ps
СГCrP±P°CḡP°C...PSPsC—PrP°P»CḡPSC- PeCḡPsPIPsPIPëP»PëPIPë, C-PSCrCrP»CḡC,,
PIPSCrC, CḡC-CëPSCḡPsC†PμCḡPμPiPSP° C, CḡP°PIPjP°);
PSPμP·P±P°P»P°PSCrPsPIP°PSC-СГC, Cḡ C...P°CḡC†CrPIP°PSPSCḡ (CḡPsP·P»P°PrPë
C...P°CḡC†PsPIPsC— PiPsPIPμPrC-PSPëPë, PμPeСГC, CḡPμPjP°P»CḡPSC- PrC-C"С, Pë);
C†CrPeCḡPsPIPëPNë PrC-P°P±PμC,, PIPμPiPμC, P°C, PëPIPSP° PSPμPNëCḡPsPiP°C, C-Cḡ.

PμC-СГP»Cḡ PsPrPSPsC†P°СГPSPsPiPs P·P°СГC, PsСГCrPIP°PSPSCḡ
PsPSPrP°PSCrPμC, CḡPsPSCr C, P° C-PSCëPëC... СГPμCḡPsC, PsPSC-PSPμCḡPiC-C†PSPëC...
PiCḡPμPiP°CḡP°C, C-PI P±CrPI PsPiPëСГP°PSPëPNë СГPμCḡPsC, PsPSC-PSPsPIPëPNë

СГРПёPSPPrCЪPsPj, C%Ps PIPeP»CЪC±P°C” C,P°PeC- СГРПёPjPiC,PsPjPё: P·PjC-PSPё
PiCГРПёC...C-C±PSPsPiPs СГРC,P°PSCr (P·P±CrPrP¶PµPSPSCЦ, PiP°P»CЪC±PёPSP°C†C-C—,
PePsPjP°), PIPµPiPµC,P°C,PёPIPSP° PSPµСГРC,P°P±C-P»CЪPSC-СГРC,СЪ
(C,P°C...C-PeP°CЪPrC-СЦ, P»P°P±C-P»CЪPSPёPNё P°CЪC,PµCЪC-P°P»CЪPSPёPNё C,PёСГРPe,
PiC-PiPµCЪC,PµCЪPjC-C—), PSPµCЪPIPSPiPs-Pj'СЦP·PsPIC- P°P±PµCЪP°C†C-C—
(PiC-PiPµCЪCЪPµC,„P»PµPeCГРC-СЦ, PiPsCЪCrCёPµPSPSCЦ PePsPsCЪPrPёPSP°C†C-C—),
CёP»CrPSPePsPiPs-PePёCёPePsPIC- СГРПёPjPiC,PsPjPё (PSCrPrPsC,P°, P±P»CЪPIP°PSPSCЦ,
PrC-P°CЪPµCЦ). PµCЪPё PIPёPSPёPePSPµPSPSC- СГРµCЪPsC,PsPSC-PSPsPiPsPiPs
СГРПёPSPPrCЪPsPjCr P»C-PeCrPIP°PSPSCЦ PsPSPrP°PSCГРµC,СЪPsPSPsPj СГРP»C-Pr
PiCЪPёPiPёPSPёC,Pё C,P° CЪPsP·PiPsC±P°C,Pё СГРПёPjPiC,PsPjP°C,PёC±PSPµ
P»C-PeCrPIP°PSPSCЦ. P¶PeC%Ps PsPrPSPsC±P°СГРPSPµ P»C-PeCrPIP°PSPSCЦ
PsPSPrP°PSCГРµC,СЪPsPSPsPj C,P° C-PSCёPёPjPё СГРµCЪPsC,PsPSC-PSPµCЪPiC-C±PSPёPjPё
PiCЪPµPiP°CЪP°C,P°PjPё PeP»C-PSC-C±PSPs PsP±T'CЪCrPSC,PsPIP°PSPs,
CЪPµPePsPjPµPSPPrCrC”C,СЪСГРЦ PIC-PrPiPsPIC-PrPSPёPNё PSP°PiP»СЦPr P·P° СГРC,P°PSPsPj
PiP°C†C-C”PSC,P° (PrPёPI. CЪPsP·PrC-P» B«P'P·P°C”PjPsPrC-СЦ P· C-PSCёPёPjPё
P»C-PeP°CЪСГРСЪPePёPjPё P·P°СГРPsP±P°PjPё C,P° C-PSCёC- PIPёPrPё PIP·P°C”PjPsPrC-PNёB»).

PµPsPIC-PrPsPjP»СЦP»PsСГРЦ PiCЪPs PIPёPiP°PrPePё C-CёPµPjC-C— PjC-PsPeP°CЪPrCr Cr
PiP°C†C-C”PSC,C-PI, СЦPeC- PsC,СЪPёPjCrPIP°P»Pё PsPSPrP°PSCГРµC,СЪPsPS. Pj
PrPµСЦPePёC... PiP°C†C-C”PSC,C-PI, PsСГРPsP±P»PёPIPs Cr CЪP°P·C-
PIPSCrC,СЪC-CёPSCЪPsPIPµPSPSPsPiPs PIPiPµPrPµPSPSCЦ, СГРПёPjPiC,PsPjPё
P·BЪ™ СЦPIPёP»PёСГРЦ PsPrCЪP°P·Cr PiC-СГРP»СЦ PIPiPµPrPµPSPSCЦ
PsPSPrP°PSCГРµC,СЪPsPSCr. PµP°C†C-C”PSC,C-PI СГРP»C-Pr PiPsPiPµCЪPµPrPёC,Pё PiCЪPs
PsP·PSP°PePё C,P° СГРПёPjPiC,PsPjPё C-CёPµPjC-C— PjC-PsPeP°CЪPrP°.

PhPSPrP°PSCГРµC,СЪPsPS PSPµ PIPiP»PёPIP°C” PSP° СГРПёСГРC,PµPjCr C†PёC,PsC...CЪPsPjCr
P 450, P°P»Pµ P·P°СГРC,PsСГРCrPIP°PSPSCЦ C-PSCёPёC... PiCЪPµPiP°CЪP°C,C-PI,
P·PrP°C,PSPёC... PIPiP»PёPIP°C,Pё PSP° P°PeC,PёPIPS-СГРC,СЪ C†PёC... C,„PµCЪPjPµPSC,C-PI,
PjPsP¶Pµ PiCЪPёP·PIPµСГРC,Pё PrPs P·PjC-PSPё PeP»C-CЪPµPSCГРC C,P° PiPµCЪC-PsPrCr
PSP°PiC-PIIPёPIPµPrPµPSPSCЦ PsPSPrP°PSCГРµC,СЪPsPSCr.

PhPSPrP°PSCГРµC,СЪPsPS P·P±C-P»CЪCёCrC” C±P°СГР C,СЪP°PSP·PёC,Cr C±PµCЪPµP·
C,PsPICГРC,PёPNё PePёCёPµC±PSPёPe, C,PsPjCr PiCЪPё PSP°СЦPIPSsСГРC,C- PSP°PIC-C,СЪ
СГРP»P°P±PePёC... PsP·PSP°Pe PePёCёPePsPiPsC— PSPµPiCЪPsC...C-PrPSPsСГРC,C-
PiPsC,СЪC-P±PµPS PiPsСГРC,C-PNёPSPёPNё PSP°PiP»СЦPr P·P° C...PIPsCЪPёPj, СЦPePёPNё
PsC,СЪPёPjCrC” PsPSPrP°PSCГРµC,СЪPsPS.

Pj PrC-C,PµPNё, СЦPeC- PsC,СЪPёPjCrCЪC,СЪ PsPSPrP°PSCГРµC,СЪPsPS СЪP°P·PsPj C-P·
PiPµPiP°C,PsC,PsPeСГРПёC±PSPёPjPё C...C-PjC-PsC,PµCЪP°PiPµPIC,PёC±PSPёPjPё
PiCЪPµPiP°CЪP°C,P°PjPё, PiPsC,СЪC-P±PSPs CЪPµC,PµP»CЪPSPs СГРC,PµP¶PёC,Pё P·P°
PjPsP¶P»PёPIPёPjPё PiPsCЪCrCёPµPSPSCЦPjPё C,„CrPSPeC†C-C— PiPµC±C-PSPePё.

PhСГРPeC-P»CЪPePё PrPs СГРPeP»P°PrCr C,P°P±P»PµC,PsPe PIC...PsPrСЦC,СЪ
PICrPiP»PµPIPsPrPё, Cr C,PsPjCr C±PёСГРP»C- P»P°PeC,PsP·P°, PiP°C†C-C”PSC,P°Pj P·
PiPsCЪCrCёPµPSPSCЦPj C,PsP»PµCЪP°PSC,PSPsСГРC,C- PrPs PICrPiP»PµPIPsPrC-PI, P·
CЪC-PrPeC-СГРPSPёPjPё СГРPiP°PrPePsPIPёPjPё P·P°C...PIPsCЪCЪPIP°PSPSCЦPjPё, C,P°PePёPjPё
СЦPe PSPµPiPµCЪPµPSPsСГРПёPjC-СГРC,СЪ PiP°P»P°PeC,PsP·Pё, P»P°PeC,P°P·PSP°
PSPµPrPsСГРC,P°C,PSC-СГРC,СЪ P°P±Ps PiP»CЪPePsP·Ps-PiP°P»P°PeC,PsP·PSP°
PjP°P»CЪP°P±СГРPsCЪP±C†C-СЦ, PSPµ PjPsP¶PSP° PiCЪPёPNёPjP°C,Pё PiCЪPµPiP°CЪP°C,.

$P-P^{\circ}C\dot{I}C,PsC\dot{I}C\acute{z}PIP^{\circ}PSPSC\dot{I}I$ $C\acute{z}$ $P\ddot{I}P_{\mu}C\dot{H}C-PsPr$ $PIP^{\circ}PiC-C,PSPsC\dot{I}C,C-P^{\circ}P\pm Ps$
 $PiPsPrC\acute{z}PIP^{\circ}PSPSC\dot{I}I$ $PiC\dot{H}C\acute{z}PrPrC\dot{H}$.

$P_{\mathcal{L}}PsPSC,C\dot{H}P^{\circ}C\ddagger P_{\mu}P\ddot{I}C\ddagger C-C\dot{I}I$.

$P\ddot{I}PeC\%Ps$ $PsPSPPrP^{\circ}PSC\dot{I}P_{\mu}C,C\dot{H}PsPS$ $P\cdot P^{\circ}C\dot{I}C,PsC\dot{I}PsPIC\acute{r}C\dot{H}C,CH$ $P\|C-PSPeP^{\circ}Pj$
 $PrC-C,PsC\dot{H}PsPrPSPsPiPs$ $PIC-PeC\acute{r},PiPsC,C\dot{H}C-P\pm PSPs$ $C\dot{H}PsP\cdot PiP\gg C\dot{I}IPSC\acute{r}C,P\ddot{e}$ $P\ddot{I}P\ddot{e}C,P^{\circ}PSPSC\dot{I}I$
 $P\ddot{I}C\dot{H}Ps$ $PIP\ddot{e}PePsC\dot{H}P\ddot{e}C\dot{I}C,P^{\circ}PSPSC\dot{I}I$ $PePsPSC,C\dot{H}P^{\circ}C\ddagger P_{\mu}P\ddot{I}C\ddagger C-C-$.

$P'P^{\circ}PiC-C,PSC-C\dot{I}C,CH$

$P\acute{K}P^{\circ}$ $P\ddot{I}C-PrC\dot{I}C,P^{\circ}PIC-$ $C\dot{H}P_{\mu}P\cdot C\acute{r}P\gg CHC,P^{\circ}C,C-PI$ $P\ddot{I}C\dot{H}PsPIP_{\mu}PrP_{\mu}PSP\ddot{e}C...$
 $P_{\mu}P\ddot{I}C-PrP_{\mu}PjC-PsP\gg PsPiC-C\ddagger PSP\ddot{e}C...$ $PrPsC\dot{I}P\gg C-PrP\|P_{\mu}PSC\dot{H},P\ddot{I}C\dot{H}P\ddot{e}P\ddot{I}C\acute{r}C\dot{I}PeP^{\circ}C\dot{H}C,CH,$
 $C\%Ps$ $PsPSPPrP^{\circ}PSC\dot{I}P_{\mu}C,C\dot{H}PsPS$ $PjPsP\|P_{\mu}$ $C\dot{I}P\ddot{I}C\dot{H}P\ddot{e}C\ddagger P\ddot{e}PSC\dot{I}I,C,P\ddot{e}$ $PIP^{\circ}PrP\ddot{e}$
 $C\%P_{\mu}P\gg P_{\mu}P\ddot{I}PSPs-P\gg P\ddot{e}C\ddagger CHPsPiPsC-$ $PrC-P\gg C\dot{I}IPSPeP\ddot{e}$ $C\acute{r}$ $C\dot{H}P^{\circ}P\cdot C-$
 $P\cdot P^{\circ}C\dot{I}C,PsC\dot{I}C\acute{r}PIP^{\circ}PSPSC\dot{I}I$ $P\ddot{I}C\dot{H}PsC,C\dot{I}PiPsPj$ $P\ddot{I}P_{\mu}C\dot{H}C\epsilon PsPiPs$ $C,C\dot{H}P\ddot{e}PjP_{\mu}C\dot{I}C,C\dot{H}C\acute{r}$
 $PIP^{\circ}PiC-C,PSPsC\dot{I}C,C-$. P' $PsPrPSPsPjC\acute{r}$ $P\cdot$ $PePsPiPsC\dot{H}C,PSP\ddot{e}C...$ $PrPsC\dot{I}P\gg C-PrP\|P_{\mu}PSC\dot{H},$
 $C\%Ps$ $PIPeP\gg C\dot{H}C\ddagger P^{\circ}P\gg Ps$ 1,8 $PjC-P\gg CHPN\mathcal{N}PsPSP^{\circ}$ $PIP^{\circ}PiC-C,PSPsC\dot{I}C,P_{\mu}PN\mathcal{N},$
 $P\cdot P^{\circ}C\dot{I}C,PsC\dot{I}C\acute{r}PIP^{\circ}PSPSC\dot{I}I$ $PsPSPPrP^{\circ}PSC\dot{I}P_{\mu}C,C\dot{H}PsPSC\acute{r}$ PI $P\ddot{I}P_{\mu}C\dot{H}C\epsilon PsPjC\acute{r}$
 $C,C\dot{H}P\ddot{e}PjP_{\mu}C\dot{I}C,C\dot{H}C-$ $P\pm C\acute{r}P\gg Ps$ $P\ddot{I}PsPi\mathcal{B}\dot{H}^{\mathcal{T}M}$ $C\dot{I}IP\cdot P^{\circ}PSPs$ $P\cdot$ $P\ddot{I}C-PrPIP\ddot{e}C\%P_{\mu}PSP\ddot{e}Pj$
 $C\dot{H}P\ddot{e}P\cdot P\ddot{e}PePsPj$ $C\dot{H}PsP\cdot C\%P_{\mu}P\ddot{I}P\gg P_{\mu}PSPSC\dot{I}I$ $P\ddot{I}C-PrPSP_{\mu}P\pm C-PSPSC\dot{I}I$ [3 $PrPsPrP^{\circ}C,PePsPIC-$
 $PIP\ddot{e}P\ddot{I}P^{\circ}PrPeP\ddot{e}$ PSP° 10 000 $P\|C-PSPsPe,$ $C\dot{I}PeC-$ $PsC,C\dot{H}P\ddot{e}PjC\acute{r}PIP^{\circ}P\gg P\ddot{e}$ $P\ddot{I}C\dot{H}P_{\mu}P\ddot{I}P^{\circ}C\dot{H}P^{\circ}C,;$
 $C\dot{I}PePsC\dot{H}P\ddot{e}PiPsPIP^{\circ}PSP\ddot{e}PN\mathcal{N}$ $PIC-PrPSPsC\dot{I}PSP\ddot{e}PN\mathcal{N}$ $C\dot{H}P\ddot{e}P\cdot P\ddot{e}Pe:$ 1,24, (95 % $PrPsPIC-C\dot{H}C\ddagger P\ddot{e}PN\mathcal{N}$
 $C-PSC,P_{\mu}C\dot{H}PIP^{\circ}P\gg$ 1,03 $\mathcal{B}\dot{H}$ "1,48)]. $P''PsC\dot{I}C,C\acute{r}P\ddot{I}PSC-$ $P_{\mu}P\ddot{I}C-PrP_{\mu}PjC-PsP\gg PsPiC-C\ddagger PSC-$
 $PrPsC\dot{I}P\gg C-PrP\|P_{\mu}PSPSC\dot{I}I$ $C\dot{I}P_{\mu}C\dot{H}C\ddagger P_{\mu}PIP\ddot{e}C...$ $PIP^{\circ}Pr$ $P\ddot{I}PsPeP^{\circ}P\cdot C\acute{r}C\dot{H}C,CH$
 $C\dot{I}C\acute{r}P\ddot{I}P_{\mu}C\dot{H}P_{\mu}C\ddagger P\gg P\ddot{e}PIC-$ $C\dot{H}P_{\mu}P\cdot C\acute{r}P\gg CHC,P^{\circ}C,P\ddot{e}$.

$P''PsC\dot{I}P\gg C-PrP\|P_{\mu}PSPSC\dot{I}I$ PSP° $C,PIP^{\circ}C\dot{H}P\ddot{e}PSP^{\circ}C...$ PSP_{μ} $PIPeP^{\circ}P\cdot C\acute{r}C\dot{H}C,CH$ PSP° $P\ddot{I}C\dot{H}C\dot{I}PjC-$
 $C\ddagger P\ddot{e}$ $PsP\ddot{I}PsC\dot{I}P_{\mu}C\dot{H}P_{\mu}PrPePsPIP^{\circ}PSC-$ $C\epsilon PeC-PrP\gg P\ddot{e}PIC-$ $P_{\mu}C,_{\mu}P_{\mu}PeC,P\ddot{e}$ PSP°
 $C\dot{H}P_{\mu}P\ddot{I}C\dot{H}PsPrC\acute{r}PeC,P\ddot{e}PIPSC\acute{r}$ $C,_{\mu}C\acute{r}PSPeC\ddagger C-C\dot{H}$.

$P\mathcal{H}PSPPrP^{\circ}PSC\dot{I}P_{\mu}C,C\dot{H}PsPS$ PSP_{μ} $C\dot{I}P\gg C-Pr$ $P\cdot P^{\circ}C\dot{I}C,PsC\dot{I}PsPIC\acute{r}PIP^{\circ}C,P\ddot{e}$ $P\ddot{I}C\dot{H}PsC,C\dot{I}PiPsPj$
 $P\ddot{I}P_{\mu}C\dot{H}C\epsilon PsPiPs$ $C,C\dot{H}P\ddot{e}PjP_{\mu}C\dot{I}C,C\dot{H}C\acute{r}$ $PIP^{\circ}PiC-C,PSPsC\dot{I}C,C-$.

$P''PsPrC\acute{z}PIP^{\circ}PSPSC\dot{I}I$ $PiC\dot{H}C\acute{z}PrPrC\dot{H}$

$P\acute{K}P_{\mu}PIC-PrPsPjPs,$ $C\ddagger P\ddot{e}$ $P\ddot{I}C\dot{H}PsPSP\ddot{e}PeP^{\circ}C''$ $PsPSPPrP^{\circ}PSC\dot{I}P_{\mu}C,C\dot{H}PsPS$ $C\acute{r}$ $P\ddot{I}C\dot{H}C\acute{r}PrPSP_{\mu}$
 $PjPsP\gg PsPePs,$ $C,PsPjC\acute{r}$ $P\ddot{I}PsPrC\acute{r}PIP^{\circ}PSPSC\dot{I}I$ $P\ddot{I}C\dot{H}C\acute{r}PrPrC\dot{H}$ $C\acute{r}$ $P\ddot{I}P_{\mu}C\dot{H}C-PsPr$
 $P\gg C-PeC\acute{r}PIP^{\circ}PSPSC\dot{I}I$ $C\dot{I}P\gg C-Pr$ $P\ddot{I}C\dot{H}P\ddot{e}P\ddot{I}P\ddot{e}PSP\ddot{e}C,P\ddot{e}$.

$P-PrP^{\circ}C,PSC-C\dot{I}C,CH$ $PIP\ddot{I}P\gg P\ddot{e}PIP^{\circ}C,P\ddot{e}$ PSP° $C\epsilon PIP\ddot{e}PrPeC-C\dot{I}C,CH$ $C\dot{H}P_{\mu}P^{\circ}PeC\ddagger C-C-$ $P\ddot{I}C\dot{H}P\ddot{e}$
 $PeP_{\mu}C\dot{H}C\acute{z}PIP^{\circ}PSPSC-$ $P^{\circ}PIC,PsC,C\dot{H}P^{\circ}PSC\dot{I}PiPsC\dot{H}C,PsPj$ $P^{\circ}P\pm Ps$ $C-PSC\epsilon P\ddot{e}PjP\ddot{e}$
 $PjP_{\mu}C...P^{\circ}PSC-P\cdot PjP^{\circ}PjP\ddot{e}$.

$P'C\dot{H}P^{\circ}C...$ $PsPIC\acute{r}C\dot{H}C\ddagger P\ddot{e}$ $PjPsP\|P\gg P\ddot{e}PIC-C\dot{I}C,CH$ $C\dot{H}PsP\cdot PIP\ddot{e}C,PeC\acute{r}$ $P\ddot{I}PsP\pm C-C\ddagger PSP\ddot{e}C...$
 $C\dot{H}P_{\mu}P^{\circ}PeC\ddagger C-PN\mathcal{N}$ $P\cdot$ $P\pm PsPeC\acute{r}$ $PSP_{\mu}C\dot{H}PIP\ddot{e}PsPiPsC-$ $C\dot{I}P\ddot{e}C\dot{I}C,P_{\mu}PjP\ddot{e},P\ddot{I}P^{\circ}C\ddagger C-C''PSC,P^{\circ}Pj$ $P\ddot{I}C-Pr$
 $C\ddagger P^{\circ}C\dot{I}P\gg C-PeC\acute{r}PIP^{\circ}PSPSC\dot{I}I$ $P\ddot{I}C\dot{H}P_{\mu}P\ddot{I}P^{\circ}C\dot{H}P^{\circ}C,PsPj$ $C\dot{H}P_{\mu}PePsPjP_{\mu}PSPPrC\acute{r}C''C,CHC\dot{I}C\dot{I}I$
 $C\acute{r}C,C\dot{H}P\ddot{e}PjC\acute{r}PIP^{\circ}C,P\ddot{e}C\dot{I}C\dot{I}I$ $PIC-Pr$ $PeP_{\mu}C\dot{H}C\acute{r}PIP^{\circ}PSPSC\dot{I}I$ $P^{\circ}PIC,PsC,C\dot{H}P^{\circ}PSC\dot{I}PiPsC\dot{H}C,PsPj$
 $P^{\circ}P\pm Ps$ $C\dot{H}PsP\pm PsC,P\ddot{e}$ $P\cdot$ $C-PSC\epsilon P\ddot{e}PjP\ddot{e}$ $PjP_{\mu}C...P^{\circ}PSC-P\cdot PjP^{\circ}PjP\ddot{e}$.

$$PuC-C\dot{I}P\gg C\dot{I}P_sPiPuC\dot{H}P^{\circ}C\dot{+}C-PN\dot{o}PSP^{\circ}PSC\dot{z}PrPsC,P^{\circ}C-P\pm P\gg C\dot{H}PI P^{\circ}PSPSC\dot{I}I.$$

*P''PsCḥPsCÍP»PëPj PrP»Cḷ P·P°PīPsP±C-PiP°PSPSCḷ PīC-CÍP»CḷPsPīPμCḥP°C†C-PNḡPSPsC—
PSC†PrPsC,Pë C,P° P±P»CḥPIP°PSPSCḷ PīCḥPμPīP°CḥP°C, PjPsPḷPSP° PīCḥPëP·PSP°C†P°C,Pë
PIPSC†C,CḥC-CḖPSCḥPs PīPs 16 PjPī P·P° 1 PīPsPrPëPSC† PrPs PīPsC†P°C,PeC†
PīCḥPsPīPμPrPμPSPSCḷ P°PSPμCÍC,PμP·C-C—. PḥP°PeCÍPëPjP°P»CḥPSP° PrPsP±PsPIP°
PrPsP·P° PsPSPPr°PSCÍPμC,CḥPsPSC† CÍC,P°PSPsPIPëC,Cḥ 32 PjPī.*

*P''C-C,Pë. PḥCḥPë PrP°PSPsPjC† PīPsPeP°P·P°PSPSC- CḥPμPePsPjPμPSPPrC†C''C,CḥCÍCḷ
P·P°CÍC,PsCÍPsPIC†PIP°C,Pë PsPSPPr°PSCÍPμC,CḥPsPS C† PIPëPīP»CḷPrC- CḥPsP·C†PëPSC†
PrP»Cḷ C-PSḂḥ™ C''PeC†C-PNḡ.*

P''P»Cḷ PICÍC-C... PIPëPrC-PI C,PμCḥP°PīC-C—.

PÍPIPSCḥC- P»C-C,PSCHḥPsPīPs PIC-PeCḡ.

*PḵPμPjP°C'' PSPμPsP±C...C-PrPSPsCÍC,C- P·PjC-PSCḥPIP°C,Pë PrPsP·C† PīCḥPμPīP°CḥP°C,C†
PīP°C†C-C''PSC,P°Pj PIC-PePsPj PIC-Pr 65 CḥPsPeC-PI.*

PμP°C†C-C''PSC,Pë P· PSPëCḥPePsPIPsCḥ PSPμPrPsCÍC,P°C,PSC-CÍC,Cḥ.

*PḵPμPjP°C'' PSPμPsP±C...C-PrPSPsCÍC,C- C† P·PjC-PSC- CḥPμPḷPëPjC† PrPsP·C†PIP°PSPSCḷ
P°P±Ps CḖP»CḷC...C† PīCḥPëP·PSP°C†PμPSPSCḷ PīCḥPμPīP°CḥP°C,C† PīP°C†C-C''PSC,P°Pj C-P·
PīPsCḥC†CḖPμPSPSCḷPj C,,C†PSPeC†C-C— PSPëCḥPsPe.*

*PμP°C†C-C''PSC,Pë P· PīPsPjC-CḥPSPsCḥ PīPμC†C-PSPePsPIPsCḥ
PSPμPrPsCÍC,P°C,PSC-CÍC,Cḥ.*

*Pj PīP°C†C-C''PSC,C-PI C-P· PīPsPjC-CḥPSPëPjPë PīPsCḥC†CḖPμPSPSCḷPjPë C,,C†PSPeC†C-C—
PīPμC†C-PSPePë PeP»C-CḥPμPSC† PsPSPPr°PSCÍPμC,CḥPsPSC† P·PSP°C†PSPs
P·PSPëPḷC†C''C,CḥCÍCḷ, P° PīPμCḥC-PsPr PSP°PīC-PIPIPëPIPμPrPμPSPSCḷ C-P·
CÍPëCḥPsPIP°C,PePë PeCḥPsPIC- Ḃḥ“ P·CḥPsCÍC,P°C''. P''P»Cḷ C,P°PePëC...
PīP°C†C-C''PSC,C-PI PjP°PeCÍPëPjP°P»CḥPSP° PrPsP±PsPIP° PrPsP·P° PīCḥPμPīP°CḥP°C,C†
PSPμ PjP°C'' PīPμCḥPμPIPëC‰C†PIP°C,Pë 8 PjPī.*

*PμP°C†C-C''PSC,Pë C-P· PīPsCḥCḡCḖPμPSPSCḷPj PjPμC,P°P±PsP»C-P·PjCḡ
CÍPīP°CḥC,PμC—PSCḡ/PrPμP±CḥPëCÍPsPePIC-PSCḡ.*

*PḥPμCḥC-PsPr PSP°PīC-PIPIPëPIPμPrPμPSPSCḷ PsPSPPr°PSCÍPμC,CḥPsPSC† C†
PīP°C†C-C''PSC,C-PI C-P· PSPμP·PjC-PSPμPSPëPj PjPμC,P°P±PsP»C-P·PjC† CÍPīP°CḥC,PμC—PSC†
C- PrPμP±CḥPëCÍPsPePIC-PSC† PSPμ P·PjC-PSCḥC''C,CḥCÍCḷ. Pj C,P°PePëC...
PīP°C†C-C''PSC,C-PI PīPsPIC,PsCḥPSPμ P·P°CÍC,PsCÍC†PIP°PSPSCḷ PīCḥPëP·PIPsPrPëC,Cḥ
PrPs C,P°PePsC— Pḷ CÍP°PjPsC— PePsPSC†PμPSC,CḥP°C†C-C— PīCḥPμPīP°CḥP°C,C†, C‰Ps PNḡ
C† C...PIPsCḥPëC... P· PSPμC†CḖPePsPrPḷPμPSPëPj PjPμC,P°P±PsP»C-P·PjPsPj. PḃPsPjC†
PSPμPjP°C'' PīPsC,CḥPμP±Pë C† P·PjC-PSC- CḥPμPḷPëPjC† PrPsP·C†PIP°PSPSCḷ PrP»Cḷ
C†C-C''C— PīCḥC†PīPë PīP°C†C-C''PSC,C-PI.*

P''C-C,Pë.

*P''C-C,CḷPj PIC-PePsPj PrPs 4 CḥPsPeC-PI PīCḥPμPīP°CḥP°C, C† PrP°PSC-PNḡ
P»C-PeP°CḥCÍCḥPeC-PNḡ C,,PsCḥPjC- PSPμ P·P°CÍC,PsCÍPsPIC†PIP°C,Pë.*

PuPμCḤPμPṛPsP·CǎPIP°PSPSCḶ.

$\text{P}\ddot{\text{K}}\text{P}^\circ \text{PrP}^\circ \text{PSP}\ddot{\text{P}}\text{N}_2 \text{C}\ddot{\text{P}}\text{P}^\circ \text{C}\dot{\text{I}} \text{C}-\text{C}\dot{\text{I}}\text{PSCrC}'' \text{PjP}^\circ \text{P}\gg \text{Ps C-PSC}, \text{PsC}\dot{\text{H}}\text{PjP}^\circ \text{C}\dot{\text{I}}\text{C}-\text{P}\ddot{\text{I}}\text{C}\dot{\text{H}}\text{Ps}$
 $\text{PiP}\mu\text{C}\dot{\text{H}}\text{P}\mu\text{PrPsP}\cdot\text{C}\dot{\text{r}}\text{PIP}^\circ \text{PSPSC}\dot{\text{I}} \text{PsPSP}\text{PrP}^\circ \text{PSC}\dot{\text{I}}\text{P}\mu\text{C}, \text{C}\dot{\text{H}}\text{PsPSC}\dot{\text{r}}. \text{Pj P}\pm\text{C}-\text{P}\gg \text{CH}\ddot{\text{C}}\text{€PsC}\dot{\text{I}}\text{C}, \text{C}-$
 $\text{PIP}\ddot{\text{P}}\text{PiP}^\circ \text{PrPeC}-\text{Pi C}\dot{\text{I}}\text{P}\ddot{\text{P}}\text{PjPiC}, \text{PsPjP}\ddot{\text{P}} \text{C}\dot{\text{I}}\text{C}... \text{PsP}\dot{\text{I}}\text{C}- \text{PSP}^\circ \text{C}, \text{C}-, \text{C}\%_0\text{Ps PsPiP}\ddot{\text{P}}\text{C}\dot{\text{I}}\text{P}^\circ \text{PSC}- \text{C}\dot{\text{r}}$
 $\text{PiP}^\circ \text{C}\dot{\text{I}}\text{C}-\text{C}''\text{PSC}, \text{C}-\text{Pi}, \text{C}\dot{\text{I}}\text{PeP}\ddot{\text{P}}\text{Pj PIPiPsPrP}\ddot{\text{P}}\text{P}\gg \text{P}\ddot{\text{P}} \text{C}\dot{\text{H}}\text{P}\mu\text{PePsPjP}\mu\text{PSP}\text{PrPsPIP}^\circ \text{PSC}- \text{PrPsP}\cdot\text{P}\ddot{\text{P}}.$

PŸPëPjPiC,PsPjPë. Pj PsPrPSPsPiPs PiP°C†C-C”PSC,P° PiC-C†P»CŹ CŹP°P·PsPIPsPiPs
 PIPSC†C,CŹC-C€PSCĤPsPIPµPSPSPsPiPs PIPiPµPrPµPSPSCŹ 72 PjPi
 PsPSPPrP°PSC†PµC,CŹPsPSC† CŹPsP·PIPëPSC†P»P°C†CĤ CŹP°PiC,PsPIP° C†P»C-PiPsC,P°
 (P°PjP°PICŹPsP·) C,CŹPëPIP°P»C-C†C,CĤ 2-3 C...PIPëP»PëPSPë C† PiPsC”PrPSP°PSPSC- P·
 PIPëCŹP°P¶PµPSPëPj P·P°PiPsCŹPsPj. Pj PrCŹC†PiPsPiPs PiP°C†C-C”PSC,P° PiC-C†P»CŹ
 PiPµCŹPsCŹP°P»CĤPSPsPiPs PiCŹPëPNëPsPjC† 48 PjPi PsPSPPrP°PSC†PµC,CŹPsPSC†
 CŹPsP·PIPëPSC†P»P°C†CĤ PiC-PiPsC,PµPSP·C-CŹ (C,P° PIC,CŹP°C,P° C†PIC-PrPsPjPsC†C,C-).
 PµC-C†P»CŹ 4-C...PIPëP»PëPSPSPsC— C-PSC,,C†P·C-C— 32 PjPi PsPSPPrP°PSC†PµC,CŹPsPSC†
 C†PiPsC†C,PµCŹC-PiP°PIC†CŹ PIP°P·PsPIP°PiP°P»CĤPSPëPNë PµPiC-P·PsPr C-P·
 C,CŹP°PSP·PëC,PsCŹPSPsCĤ P±P»PsPeP°PrPsCĤ C†PµCŹC†CŹ PrCŹC†PiPsPiPs
 C†C,C†PiPµPSCŹ. PkPµCŹPIPsPIPs-PjᵇĤ™ CŹP·PsPIC- PiPsCŹC†C€PµPSPSCŹ,
 PIPµPiPµC,P°C,PëPIPSP° PSPµC†C,P°P±C-P»CĤPSC-C†C,CĤ, C†PsPSP»PëPIC-C†C,CĤ C,P°
 PePsCŹPsC,PeC- PiPµPSPµCŹP°P»C-P·PsPIP°PSC- C,PsPSC-PePs-PeP»PsPSC-C‡PSC-
 C†C†PrPsPjPë (CŹPeC- PjPëPSC†P»Pë PiC-C†P»CŹ P·P°C†C,PsC†C†PIP°PSPSCŹ
 P±PµPSP·PsPrC-P°P·PµPiC-PSC†) C†PiPsC†C,PµCŹC-PiP°P»PëC†CĤ C† PsPrPSPsCŹC-C‡PSPsC—
 PrPëC,PëPSPë, CŹPeP° PiCŹPsPePsPIC,PSC†P»P° 7 P°P±Ps 8 C,P°P±P»PµC,PsPe
 PsPSPPrP°PSC†PµC,CŹPsPSC† PiPs
 8 PjPi (PrPsP·P° PiCŹPëP±P»PëP·PSPs C† 40 CŹP°P·C-PI PIPëC‰P°, PSC-P¶
 CŹPµPePsPjPµPSPPrPsPIP°PSP° PrP»CŹ PrC-C,PµPNë (0,1ᵇĤ“0,15 PjPi/PePi)). Pj PIC†C-C...
 PIPëPiP°PrPeP°C... C†C- CŹPIPëC‰P° PiPsPIPSC-C†C,CĤ PjPëPSP°P»Pë.

P>C-PeCžPIP°PSPSCŮ: PIC-PrPjC-PSP° PïCĤPµPïP°CĤP°C,Cř, CĤPëPjPïC,PsPjP°C,PëC†PSP° C,P° PïC-PrC,CĤPëPjCřCĤC†P° C,PµCĤP°PïC-CŮ. P-P°CĤC,PsCĤCřPIP°PSPSCŮ C-PïPµPeP°PeCřP°PSPë PrP»CŮ P»C-PeCřPIP°PSPSCŮ PïPµCĤPµPrPsP·CřPIP°PSPSCŮ PsPSPrP°PSCĤPµC,CĤPsPSCř PSPµ CĤPµPePsPjPµPSPrCřC"C,ChCĤCŮ, PsCĤPeC-P»ChPePe C-C- PrC-CŮ PSPµ PjPsP¶Pµ PIPëCŮPIPëC,PëCĤCŮ C†PµCĤPµP· P°PSC,PëPµPjPµC,PëC†PSPëPµ PIPïP»PëPI PsPSPrP°PSCĤPµC,CĤPsPSCř. PŸPïPµC†PëC,,C-C†PSPsPiPs P°PSC,PëPrPsC,Cř PSPµPjP°C".

$\text{P}_{\text{H}}\text{PsPrP}^{\circ}\text{P} \gg \text{CH}_3\text{C}\epsilon\text{P}_{\text{H}} \text{ PIP}_{\text{H}}\text{PrP}_{\text{H}}\text{PSPSC}_{\text{H}} \text{ P}^{\circ}\text{C}\dagger\text{C}-\text{C}^{\circ}\text{PSC}, \text{C}-\text{PI} \text{ C}\acute{\text{I}}\text{P} \gg \text{C}-\text{Pr} \text{ P}\ddot{\text{C}}\text{H}_3\text{PsPIP}\text{sPrP}\ddot{\text{C}}, \text{P}\ddot{\text{e}} \text{ P}^{\circ} \text{PeP} \gg \text{C}-\text{PSC}-\text{C}\ddagger\text{PSP}\ddot{\text{e}}\text{PjP}\ddot{\text{e}} \text{ P}\ddot{\text{I}}\text{sPeP}^{\circ}\text{P}^{\circ}\text{PSPSC}_{\text{H}}\text{PjP}\ddot{\text{e}} \text{ P}^{\circ}\text{P}\pm\text{Ps}, \text{C}\acute{\text{r}} \text{ C}\text{H}_3\text{P}^{\circ}\text{P}^{\circ}\text{C}- \text{PjPsP}\text{P} \gg \text{P}\ddot{\text{e}}\text{PIP}\text{sC}\acute{\text{I}}\text{C}, \text{C}-, \text{P}^{\circ}\text{PiC}-\text{PrPSPs} \text{ P}^{\circ} \text{ C}\text{H}_3\text{P}_{\text{H}}\text{PePsPjP}_{\text{H}}\text{PSPrP}^{\circ}\text{C}\dagger\text{C}-\text{C}_{\text{H}}\text{PjP}\ddot{\text{e}} \text{ PSP}^{\circ}\text{C}\dagger\text{C}-\text{PsPSP}^{\circ}\text{P} \gg \text{CH}_3\text{PSPsPiPs} \text{ C}\dagger\text{P}_{\text{H}}\text{PSC}, \text{C}\text{H}_3\text{C}\acute{\text{r}} \text{ C}\%_{\text{O}}\text{PsPrPs} \text{ PsC}, \text{C}\text{H}_3\text{C}\acute{\text{r}}\text{C}^{\circ}\text{PSC}_{\text{H}}.$

PhPSPPr°PSCr°PμC, C₇H₅PS PS PiPsPrPsPIP¶CrC" C-PSC, PμC₇PIP°P» QT Cr
PrPsP·PsP·P°P»PμP¶PSC-PN₂ C,, PsC₇H₅PjC-. PJ C₇H₅P°P·C- PiPμC₇H₅PμPrPsP·CrPIP°PSPSC¶
C₇H₅PμPePsPjPμPSPPrCrC"C, CH₃CrC¶¶ PiC₇H₅PIPμPrPμPSPSC¶ P·P₇P"- PjPsPSC-C, PsC₇H₅PëPSPiCr.

$P''C-C, P\ddot{e}$. $P\ddot{u}PsPIC-PrPsPjP \gg Cl\ddot{I}P \gg PsC\acute{I}Cl\ddot{I}$ $P\ddot{i}C\grave{H}Ps$ $Cl'P\ddot{u}C\grave{H}PsC, PsPSC-PSPsPIP\ddot{e}PN\grave{e}$
 $Cl'P\ddot{e}PSPrC\grave{H}PsPj$ Cr $PSP\ddot{u}PjPsPIP \gg Cl\ddot{I}C$, C, P° $PrC-C, P\ddot{u}PN\grave{e}$ $PIC-PePsPj$ $PIC-Pr$ 12 $PjC-Cl'Cl\ddot{I}C\ddot{I}C\ddot{I}C-PI$
 $PrPs$ 2 $C\grave{H}PsPeC-PI$ $P\ddot{i}C-Cl'P \gg Cl\ddot{I}$ $PIP\ddot{e}P\ddot{i}P^{\circ}PrPePsPIPsPiPs$ $PiP\ddot{u}C\grave{H}P\ddot{u}PrPsP \cdot CrPIP^{\circ}PSPSC\ddot{I}$
 $PsPSPrP^{\circ}PSC\acute{I}P\ddot{u}C, C\grave{H}PsPSCr$ $PrP \gg Cl\ddot{I}$ $PiP\ddot{u}C\grave{H}PsC\grave{H}P^{\circ}P \gg CH\ddot{H}PSPsPiPs$ $P \cdot P^{\circ}Cl'C, PsCl'CrPIP^{\circ}PSPSC\ddot{I}$
 $(PrPsP \cdot P\ddot{e}$ $PiP\ddot{u}C\grave{H}P\ddot{u}PIP\ddot{e}C\%_{\circ}CrPIP^{\circ}P \gg P\ddot{e}$ $C\grave{H}P\ddot{u}PePsPjP\ddot{u}PSPrPsPIP^{\circ}PSP\ddot{e}PN\grave{e}$ $C\grave{H}C-PIP\ddot{u}PSC\grave{H}$ 4
 $PjPi/PePi)$.

PμPsP±C-C±PSC- CḡPμP°PeC†C-C—.

PμPsP±C-C±PSC- CḡPμP°PeC†C-C—, C-PSC,,PsCḡPjP°C†C-Cḡ PīCḡPs CḡPeC- PSP°PIPμPrPμPSPs
PSPëPḡC±Pμ, PeP»P°CḡPëC,,C-PePsPIP°PSC- P·P° PsCḡPiP°PSP°PjPë C- CḡPëCḡC,PμPjP°PjPë C,P°
P·P° C±P°CḡC,PsC,PsCḡ C—C... PIPëPSPëPePSPμPSPSCḡ: PrC†PḡPμ 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° <1/1000), PrC†PḡPμ CḡC-PrPePs (<1/10000).

Pj PeP»C-PSC-C±PSPëC... PrPsCḡP»C-PrPḡPμPSPSCḡC... P±C†P»Ps PICḡC,P°PSPsPIP»PμPSPs,
C%Ps PSP°PNëC±P°CḡC,C-CëPëPjPë PīPsP±C-C±PSPëPjPë CḡPμP°PeC†C-CḡPjPë P±C†P»Pë:
PiPsP»PsPIPSPëPNë P±C-P»CHḡ (11 %), P·P°PīPsCḡ (4 %), PIC-PrC±C†C,C,Cḡ C,PμPīP»P° P°P±Ps
PīCḡPëPīP»PëPIPë (<1 %).

P— P±PsPeCḡ C-PjCḡPSPSPsC— CḡPëCḡC,PμPjPë.

P C-PrPePs: P°P»PμCḡPiC-C±PSC- CḡPμP°PeC†C-C— PSPμPiP°PNëPSPsPiPs C,PëPīC†, PI
PsPeCḡPμPjPëC... PIPëPīP°PrPeP°C... C,CḡPḡPeC-, PIPeP»CḡC±P°CḡC±Pë
P°PSP°C,,C-P»P°PeCḡC-Cḡ, P±CḡPsPSC...PsCḡPiP°P·Pj, PeCḡPsPīPëPīBḡ™ CḡPSPeC† C,P°
P°PSPiC-PsPSPμPICḡPsC,PëC±PSPëPNë PSP°P±CḡCḡPe.

P— P±PsPeCḡ C†PμPSC,CḡP°P»CHḡPSPsC— PSPμCḡPIPsPIPsC— CḡPëCḡC,PμPjPë.

P°C†PḡPμ C±P°CḡC,Ps: PiPsP»PsPIPSPëPNë P±C-P»CHḡ.

PḡPμC±P°CḡC,Ps: CḡC†PrPsPjPë, CḡC†C...PsPIC- PīPsCḡC†CëPμPSPSCḡ (PIPeP»CḡC±P°CḡC±Pë
PμPeCḡC,CḡP°PīC-CḡP°PjC-PrPSC- CḡPμP°PeC†C-C—, C,P°PeC- CḡPe
PsPeC†P»PsPiC-CḡPSPëPNë PeCḡPëP·, PrPëCḡC,PsPSC-C±PSC- CḡPμP°PeC†C-C— C-
PrPëCḡPeC-PSPμP·C-Cḡ P±PμP· CḡC,C-PNëPePëC... PeP»C-PSC-C±PSPëC...
PSP°CḡP»C-PrPeC-PI).

P C-PrPePs: P·P°PīP°PjPsCḡPsC±PμPSPSCḡ PīC-Pr C±P°Cḡ CëPIPëPrPePsPiPs
PIPSC†C,CḡC-CëPSCḡPsPIPμPSPSPsPiPs PIPμPrPμPSPSCḡ PīCḡPμPīP°CḡP°C,C†;
PīCḡPëPiPSC-C±PμPSPSCḡ C†PμPSC,CḡP°P»CHḡPSPsC— PSPμCḡPIPsPIPsC—
CḡPëCḡC,PμPjPë, PīP°CḡPμCḡC,PμP·C-C—.

P— P±PsPeCḡ PsCḡPiP°PSC-PI P·PsCḡCḡ.

P C-PrPePs: CḡPePsCḡPsPjPëPSC†C%C- PīPsCḡC†CëPμPSPSCḡ P·PsCḡC†
(PīPsPjC†C,PSC-PSPSCḡ PI PsC±P°C...), PjPëPSC†C%P° CḡP»C-PīPsC,P°, PiPsP»PsPIPSPëPj
C±PëPSPsPj PīC-Pr C±P°Cḡ PIPSC†C,CḡC-CëPSCḡPsPIPμPSPSPsPiPs
P·P°CḡC,PsCḡC†PIP°PSPSCḡ.

P— P±PsPeCḡ CḡPμCḡC†PμPIPs-CḡCḡPrPëPSPSPsC— CḡPëCḡC,PμPjPë.

PḡPμC±P°CḡC,Ps: P°CḡPëC,PjC-C—, P±C-P»CHḡ C† PrC-P»CḡPSC†C- CḡPμCḡC†Cḡ (P·
PrPμPīCḡPμCḡC-C°Cḡ CḡPμPiPjPμPSC,P° ST P°P±Ps P±PμP· PSPμC—),
P±CḡP°PrPëPeP°CḡPrC-Cḡ, P°CḡC,PμCḡC-P°P»CHḡPSP° PiC-PīPsC,PμPSP·C-Cḡ,
P°CḡC,PμCḡC-P°P»CHḡPSP° PiC-PīPμCḡC,PμPSP·C-Cḡ, C,P°C...C-PeP°CḡPrC-Cḡ,
PSPμPīCḡPëC,PsPjPSC-CḡC,CHḡ.

PḡP°CḡC,Ps: PIC-PrC±C†C,C,Cḡ C,PμPīP»P°, PīCḡPëPīP»PëPIPë.

$P - P \pm PsPeC \acute{z} PrP\ddot{e}C...P^{\circ}P \gg CH\dot{b}PSPsC - C\acute{I}P\ddot{e}C\acute{I}C, P_{\mu}PjP\ddot{e}C, P^{\circ}PsC\dot{H}PiP^{\circ}PSC - PI PiC\dot{H}C \acute{z} PrPSPsC - PeP \gg C - C, PeP\ddot{e}.$

$P\acute{k}P_{\mu}C \ddagger P^{\circ}C\acute{I}C, Ps: PiP\ddot{e}PeP^{\circ}PIPeP^{\circ}, PeP^{\circ}C\epsilon P_{\mu}P \gg CH.$

$P - P \pm PsPeC \acute{z} C\epsilon P \gg C \acute{z} PSPePsPIPs - PeP\ddot{e}C\epsilon PePsPIPsPiPsC, C\dot{H}P^{\circ}PeC, C \acute{z}.$

$P\dot{S}P^{\circ}C\acute{I}C, Ps: P \cdot P^{\circ}PiPsC\dot{H}, PrC - P^{\circ}C\dot{H}P_{\mu}C\dot{I}, C\acute{I}C\acute{r}C...C - C\acute{I}C, CH C\acute{r} C\dot{H}PsC, C -, P \pm C - P \gg CH C\acute{r} P\dot{I}P\ddot{e}PIPsC, C -.$

$P - P \pm PsPeC \acute{z} PiP_{\mu}PiP^{\circ}C, PsP \pm C - P \gg C - P^{\circ}C\dot{H}PSPsC - C\acute{I}P\ddot{e}C\acute{I}C, P_{\mu}PjP\ddot{e}.$

$P\acute{k}P_{\mu}C \ddagger P^{\circ}C\acute{I}C, Ps: P \pm P_{\mu}P \cdot C\acute{I}P\ddot{e}PjPiC, PsPjPSP_{\mu}PiC - PrPIP\ddot{e}C\%P_{\mu}PSPSC\dot{I} PiPsPeP^{\circ}P \cdot PSP\ddot{e}PeC - PI C,, C\acute{r}PSPeC \ddagger C - C - PiP_{\mu}C \ddagger C - PSPeP\ddot{e}, PiPsC\dot{H}C\acute{r}C\epsilon P_{\mu}PSPSC\dot{I} C,, C\acute{r}PSPeC \ddagger C - C - PiP_{\mu}C \ddagger C - PSPeP\ddot{e}.$

$P - P^{\circ}PiP^{\circ}P \gg CH\dot{b}PSC - PiPsC\dot{H}C \acute{z} C\epsilon P_{\mu}PSPSC\dot{I}: C\acute{I}P \gg P^{\circ}P \pm PeC - C\acute{I}C, CH,$
 $PSP_{\mu}PiC\dot{H}P\ddot{e}C, PsPjPSC - C\acute{I}C, CH. P\dot{I}C - PiP\ddot{e}PiP^{\circ}PrPeP\ddot{e} C\acute{I}PiPsC\acute{I}C, P_{\mu}C\dot{H}C - PiP^{\circ}C\dot{H}C, CHC\acute{I}C\dot{I}$
 $PiPsP \gg PsPIPSP\ddot{e}Pj C \ddagger P\ddot{e}PSPsPj C\acute{r} PiP^{\circ}C \ddagger C - C''PSC, C - PI, C\dot{I}PeC - PsC, C\dot{H}P\ddot{e}PjC\acute{r}C\dot{H}C, CH$
 $C...C - PjC - PsC, P_{\mu}C\dot{H}P^{\circ}PiP_{\mu}PIC, P\ddot{e}C \ddagger PSC - PiC\dot{H}P_{\mu}PiP^{\circ}C\dot{H}P^{\circ}C, P\ddot{e}, C\%Ps PjC - C\acute{I}C, C\dot{I}C, CH$
 $C \ddagger P\ddot{e}C\acute{I}PiP \gg P^{\circ}C, P\ddot{e}PS.$

$P_{\dot{h}}P_{\mu}C, P^{\circ}P \pm PsP \gg C - P \cdot Pj.$

$P_{\mu}C\dot{H}P\ddot{e}P \pm P \gg P\ddot{e}P \cdot PSPs C\acute{r} 5 \% PiP^{\circ}C \ddagger C - C''PSC, C - PI P \pm C\acute{r}P \gg Ps PePsC\dot{H}PsC, PePsC \ddagger P^{\circ}C\acute{I}PSP_{\mu}$
 $PiC - PrPIP\ddot{e}C\%P_{\mu}PSPSC\dot{I} P \pm C - P \gg CHC\epsilon PSC - P\dot{I} C\acute{r} PrPIP^{\circ} C\dot{H}P^{\circ}P \cdot P\ddot{e} PIC - Pr$
 $PIP_{\mu}C\dot{H}C...PSCHPsC - PjP_{\mu}P\dot{I}C - PSPsC\dot{H}PjP\ddot{e} SGOT C - SGPT. P\acute{k}P_{\mu}PIC - PrPsPjPs, C \ddagger P\ddot{e}$
 $PiPsPi\dot{b}T^{\text{TM}}C\dot{I}P \cdot P^{\circ}PSP_{\mu} C \ddagger P_{\mu} P \cdot P \pm C - P \gg CHC\epsilon P_{\mu}PSPSC\dot{I} P \cdot PrPsP \cdot PsC\dot{H} P^{\circ}P \pm Ps$
 $C, C\dot{H}P\ddot{e}PIP^{\circ}P \gg C - C\acute{I}C, C\dot{H} C, P_{\mu}C\dot{H}P^{\circ}PiC - C -.$

$P_{\mu}PsPIC - PrPsPjP \gg C\dot{I}P \gg P\ddot{e} PiC\dot{H}Ps PiP_{\mu}C \ddagger C - PSPePsPIC\acute{r} PSP_{\mu}PrPsC\acute{I}C, P^{\circ}C, PSC - C\acute{I}C, CH C -$
 $P \gg P_{\mu}C, P^{\circ}P \gg CH\dot{b}PSP\ddot{e}P_{\dot{N}} PSP^{\circ}C\acute{I}P \gg C - PrPsPe C\acute{r} PiP^{\circ}C \ddagger C - C''PSC, C - PI, C...PIPsC\dot{H}P\ddot{e}C... PSP^{\circ}$
 $C\dot{H}P^{\circ}Pe, C\dot{I}PeC - PsC, C\dot{H}P\ddot{e}PjC\acute{r}PiP^{\circ}P \gg P\ddot{e} PsPrPSPsC \ddagger P^{\circ}C\acute{I}PSPs PeC - P \gg CHPeP^{\circ}$
 $PiC\dot{H}P_{\mu}PiP^{\circ}C\dot{H}P^{\circ}C, C - PI, C\acute{r} C, PsPjC\acute{r} C \ddagger P\ddot{e}C\acute{I}P \gg C - PiPsC, P_{\mu}PSC \ddagger C - P_{\dot{N}}PSPs$
 $PiP_{\mu}PiP^{\circ}C, PsC, PsPeC\acute{I}P\ddot{e}C \ddagger PSC\acute{r} C \ddagger P\ddot{e}C, PsC, PsPeC\acute{I}P\ddot{e}C \ddagger PSC\acute{r} C...C - PjC - PsC, P_{\mu}C\dot{H}P^{\circ}PiC - C\dot{H} C, P^{\circ}$
 $P^{\circ}PSC, P\ddot{e}P \pm C - PsC, P\ddot{e}PeP\ddot{e}. P \cdot C, C - PsP \gg PsPiC - C\dot{I} PiP_{\mu}C \ddagger C - PSPePsPIPsC -$
 $PSP_{\mu}PrPsC\acute{I}C, P^{\circ}C, PSPsC\acute{I}C, C - C\acute{r} C \ddagger P\ddot{e}C... PiP\ddot{e}PiP^{\circ}PrPeP^{\circ}C... P \cdot P^{\circ}P \gg P\ddot{e}C\epsilon P^{\circ}C''C, CHC\acute{I}C\dot{I}$
 $PSP_{\mu}C\dot{I}C\acute{I}PSPsC\dot{H}. P' C\acute{r}P \gg P\ddot{e} C, P^{\circ}PePsP\dot{I} C\dot{H}C - PrPeC - C\acute{I}PSC - PiPsPIC - PrPsPjP \gg P_{\mu}PSPSC\dot{I}$
 $PiC\dot{H}Ps PiC - PiPsPeP^{\circ}P \gg C - C''PjC - C\dot{H}.$

$P_{\mu}PsP \pm C - C \ddagger PSC - C\dot{H}P_{\mu}P^{\circ}PeC \ddagger C - C - P \cdot P^{\circ} PrP^{\circ}PSP\ddot{e}PjP\ddot{e}$
 $PiC - C\acute{I}P \gg C\dot{I}C\dot{H}P_{\mu}C''C\acute{I}C, C\dot{H}P^{\circ}C \ddagger C - P_{\dot{N}}PSPsPiPs C\acute{I}PiPsC\acute{I}C, P_{\mu}C\dot{H}P_{\mu}P\dot{I}P_{\mu}PSPSC\dot{I}.$

$P_{\mu}C\dot{H}PsC,, C - P \gg CH PiPsP \pm C - C \ddagger PSP\ddot{e}C... C\dot{H}P_{\mu}P^{\circ}PeC \ddagger C - P_{\dot{N}} C\acute{r} PrC - C, P_{\mu}P_{\dot{N}} C - PiC - PrP \gg C - C, PeC - PI$
 $PjPsP\dot{I}PSP^{\circ} P \pm C\acute{r}P \gg Ps PiPsC\dot{H}C - PIPSC\dot{I}C, P\ddot{e} P \cdot C, P^{\circ}PeP\ddot{e}Pj C\acute{r} PrPsC\dot{H}PsC\acute{I}P \gg P\ddot{e}C....$

$P - P \pm PsPeC \acute{z} C - PjC \acute{z} PSPSPsC - C\acute{I}P\ddot{e}C\acute{I}C, P_{\mu}PjP\ddot{e}.$

$P C - PrPePs: C\dot{H}P_{\mu}P^{\circ}PeC \ddagger C - C - PiC - PiP_{\mu}C\dot{H}C \ddagger C\acute{r}C, P \gg P\ddot{e}PIPsC\acute{I}C, C -, C - PSPsPrC - C, C\dot{I}P\dot{I}PeC -$
 $(PSP^{\circ}P \pm C\dot{H}C\dot{I}Pe PiPsC\dot{H}C, P^{\circ}PSC -, C...C\dot{H}P\ddot{e}PiP \gg P_{\mu} PrP\ddot{e}C...P^{\circ}PSPSC\dot{I},$
 $P \gg P^{\circ}C\dot{H}P\ddot{e}PSPiPsC\acute{I}PiP^{\circ}P \cdot Pj C - PeP^{\circ}C\dot{H}PrC - PsPiC\acute{r}P \gg CHPjPsPSP^{\circ}P \gg CH\dot{b}PSP\ddot{e}P_{\dot{N}}$
 $C\epsilon PsPe/P \cdot C\acute{r}PiP\ddot{e}PSPeP^{\circ} C\acute{I}P_{\mu}C\dot{H}C \ddagger C\dot{I}.$

P— P±PsPeCž CÍPμCȚC†PμPIPs-CÍCžPrPëPSPSPsC— CÍPëCÍC,PμPjPë.

PkPμC†P°CÍC,Ps: C-PSC,,P°CȚPeC, PjC-PsPeP°CȚPrP° (<0,01 %), CÍC,PμPSPsPeP°CȚPrC-CȚ, P±C-P»CH CÍ PiCȚC†PrCȚC... P·P°P±Ps P±PμP· PrPμPiCȚPμCÍC-C— ST CÍPμPiPjPμPSC,P°, P°CȚPëC,PjC-C— (CÍ C,PsPjC† C†PëCÍP»C- C€P»CÍPSPsC†PePsPIP° P°P±Ps PSP°PrC€P»CÍPSPsC†PePsPIP° C,P°C...C-PeP°CȚPrC-CȚ, PiPμCȚPμPrC†P°CÍPSC- C€P»CÍPSPsC†PePsPIC- CÍPePsCȚPsC†PμPSPSCȚ C- C,,C-P±CȚPëP»CȚC†C-CȚ PiPμCȚPμPrCÍPμCȚPrCH), PμP»PμPeC,CȚPsPeP°CȚPrC-PsPiCȚP°C,,C-C†PSC- P·PjC-PSPë (PI C,PsPjC† C†PëCÍP»C- C- PrCȚC†PiPëPNë CÍC,C†PiC-PSCĤ P±P»PsPeP°PrPë CÍPμCȚC†CȚ), CÍPμCȚC†PμP±PëC,C,CȚ C- PSPμPiCȚPëC,PsPjPSC-CÍC,CH.

PŞP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: C-C€PμPjC-CȚ PjC-PsPeP°CȚPrP° (PrPëPI. CȚPsP·PrC-P» B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍC†PIP°PSPSCȚB»).

P C-PrPePs C- PiPμCȚPμPIP°P¶PSPs PiCȚPë PIPSC†C,CȚC-C€PSCĤPsPIPμPSPSPsPjC† P·P°CÍC,PsCÍC†PIP°PSPSC- PsPSPrP°PSCÍPμC,CȚPsPSC†, PiPsPIC-PrPsPjP»CȚP»Pë PiCȚPs PjPëPSC†C%oC- P·PjC-PSPë PSP° P·PμP“, PIPeP»CȚC†P°CȚC†Pë PiPsPrPsPIP¶PμPSPSCȚ C-PSC,PμCȚPIP°P»C† QT, PIPëPiP°PrPePë C,CȚC-PiPsC,C-PSPSCȚ/PjPμCȚPμC...C,C-PSPSCȚ C€P»CÍPSPsC†PeC-PI, C,,C-P±CȚPëP»CȚC†C-CĤ C€P»CÍPSPsC†PeC-PI, P·C†PiPëPSPeC† CÍPμCȚC†CȚ C- CȚP°PiC,PsPIPëPNë P»PμC,P°P»CHPSPëPNë PSP°CÍP»C-PrPsPe.

P— P±PsPeCž PsCȚPiP°PSC-PI P·PsCȚCž.

P C-PrPePs PiPsPIC-PrPsPjP»CȚP»Pë PiCȚPs PIPëPiP°PrPePë CÍPePsCȚPsPjPëPSC†C%oPsC— CÍP»C-PiPsC,Pë, CȚPe PiCȚP°PIPëP»Ps, CÍ PjPμP¶P°C... CȚPμPePsPjPμPSPrPsPIP°PSPsPiPs PrC-P°PiP°P·PsPSC† PrPsP·C†PIP°PSPSCȚ C- PiPμCȚPμPIP°P¶PSPs PiC-Pr C†P°CÍ PIPSC†C,CȚC-C€PSCĤPsPIPμPSPSPsPiPs PIPiPμPrPμPSPSCȚ. Pj P±C-P»CHC€PsCÍC,C- PIPëPiP°PrPeC-PI CÍP»C-PiPsC,P° PjPëPSP°P»P° PiCȚPsC,CȚPiPsPj 20 C...PIPëP»PëPS.

P— P±PsPeCž PiPμPiP°C,PsP±C-P»C-P°CȚPSPsC— CÍPëCÍC,PμPjPë.

P’Pμ·CÍPëPjPiC,PsPjPSPμ PiC-PrPIPëC%oPμPSPSCȚ PiPsPeP°P·PSPëPeC-PI C,,C†PSPeC†C-C— PiPμC†C-PSPëPë.

P— P±PsPeCž C†PμPSC,CȚP°P»CHPSPsC— PSPμCȚPIPsPIPsC— CÍPëCÍC,PμPjPë.

PĤPëPSC†C%oPμ P·P°PiP°PjPsCȚPsC†PμPSPSCȚ (<0,1 %) PI PsCÍPSPsPIPsPjC† PiC-Pr C†P°CÍ P°P±Ps PiC-CÍP»CȚ P·P°PIPμCȚC€PμPSPSCȚ PIPSC†C,CȚC-C€PSCĤPsPIPμPSPSPsC— C-PSC,,C†P·C-C— PsPSPrP°PSCÍPμC,CȚPsPSC†.

PkPμC†P°CÍC,Ps (<1 %) PiPsPIC-PrPsPjP»CȚP»Pë PiCȚPs PμPeCÍC,CȚP°PiC-CȚP°PjC-PrPSC- CȚPμP°PeC†C-C—, PIPeP»CȚC†P°CȚC†Pë PsPeC†P»PsPiC-CȚPSPëPNë PeCȚPëP·/ PrPëCÍC,PsPSC-C†PSC- CȚPμP°PeC†C-C— (PrPëCÍPeC-PSPμP·C-CȚ PsCȚP°P»CHPSPs- P»PëC†CHPsPIP°, PsPiC-CÍC,PsC,PsPSC†C†, C,CȚPμPjPsCȚ), CȚC†C...PsPIC- CȚPsP·P»P°PrPë C,P° PrPëCÍPeC-PSPμP·C-C— P±PμP· CÍC,C-PNëPePëC... PeP»C-PSC-C†PSPëC... PSP°CÍP»C-PrPeC-PI.

PŸPμCȚPsC,PsPSC-PSPsPIPëPNë CÍPëPSPrCȚPsPj P±C†PI PIC-PrP·PSP°C†PμPSPëPNë PiCȚPë P·P°CÍC,PsCÍC†PIP°PSPSC- 5-HT3-P°PSC,P°PiPsPSC-CÍC,C-PI CȚPμC†PμPiC,PsCȚC-PI (PIPeP»CȚC†P°CȚC†Pë PsPSPrP°PSCÍPμC,CȚPsPSC† PiC-PrCȚPsC...P»PsCȚPëPr) C† PiPsC”PrPSP°PSPSC- P·C-PSC€PëPjPë CÍPμCȚPsC,PsPSC-PSPμCȚPiC-C†PSPëPjPë PiCȚPμPiP°CȚP°C,P°PjPë C,P°/P°P±Ps PSPμPNëCȚPsP»PμPiC,PëPeP°PjPë.

P— P±PsPeCž C€PeC-ČĤPë C,P° PïC-PrC€PeC-ČĤPSPsC— PeP»C-C,PePsPIPëPSPë.

P"CrP¶Pµ ČĤC-PrPePs: P±CrP»CHPsP·PSC- ČĤPµP°PeC†C-C— C€PeC-ČĤPë C-
CĤP»PëP·PsPIPëC... PsP±PsP»PsPSPsPe, Cr C,PsPjCr C†PëCĤP»C- P»PµC,P°P»CHPsC-,
P·PsPeČĤPµPjP° C,PsPeCĤPëC†PSC- C€PeC-ČĤPSC- PIPëCĤPëPïP°PSPSCĬ, C,P°PeC- CĬPe
CĤPëPSPPrČĤPsPj PŸC,C-PIPµPSCĤP°БĤ"Р"Р¶PsPSCĤP°PSP° C,P° C,PsPeCĤPëC†PSPëPNë
PµPïC-PrPµČĤPjP°P»CHPsPëPNë PSPµPeČĤPsP»C-P.

PµČĤPs C†C- ČĤPµP°PeC†C-C— PïPsPIC-PrPsPjP»CĬP»Pë Cr PïP°C†C-C"PSC,C-PI, CĬPeC-
P·P°CĤC,PsCĤPsPIC†CĤC,CH C- C-PSC€C- P»C-PeP°ČĤCĤCĤPeC- P·P°CĤPsP±Pë.

PŸPµČĤPjC-PS PïČĤPëPrP°C,PSPsCĤC,C-. 3 ČĤPsPePë.

PJPjPsPIPë P·P±PµČĤC-PiP°PSPSCĬ.

P—P±PµČĤC-PiP°C,Pë PI PsČĤPëPiC-PSP°P»CHPsC-PNë CrPïP°PePsPIC†C- PïČĤPë
C,PµPjPïPµČĤP°C,C†ČĤC- PSPµ PIPëC‰Pµ 30 B°PŸ.

P—P±PµČĤC-PiP°C,Pë PI PSPµPrPsCĤC,C†PïPSPsPjCr PrP»CĬ PrC-C,PµPNë PjC-CĤC†C-.

PJPïP°PePsPIPëP°.

PµPs 10 C,P°P±P»PµC,PsPe Cr P±P»C-CĤC,PµČĤC-. PµPs 1 P±P»C-CĤC,PµČĤCr PI PïP°C†C†C- P·
PeP°ČĤC,PsPSCĤ.

РЉР°С,РµРµРѕСĤС-СĬ РІС-РrРiСrСĤРeСr. P—P° ČĤPµC†PµPïC,PsPj.

P'PëČĤPsP±PSPëPe.

PµČĤPĥPŸ B«PŸPµC...PSPsP»PsPiB».

**РѣС-СĤC†PµP·PSP°C...PsPrP¶PµPSPSCĬ PIPëČĤPsP±PSPëPeP° C,P° P°PrČĤPµCĤP°
PjC-CĤC†CĬ PïČĤPsPIP°PrP¶PµPSPSCĬ PNëPsPiPs PrC-CĬP»CHPsPSCĤC,C-.**

PJPeČĤP°C—PSP°, 20300, P§PµČĤPeP°CĤCĤPeP° PsP±P»., PjC-CĤC,Ps PJPjP°PSCĤ,
PIC†P»PëC†CĬ PŸC,P°ČĤP° PïČĤPsČĤC-P·PSP°, P±CrPrPëPSPsPe 8.