

P_hP_μC...P°PSC-P·Pj PrC-C—

*P·P·PsPjP_μPiC_hP°P·PsP» C_hPIP»C_hC” C_hPsP±PsC_h C_hP»P°P±PeC_h PsC_hPSPsPIC_h, C%₀Ps
PePsPSC†P_μPSC,C_hC_hC_hC”C,C_hC_hC_hC_h C,P° PiP_μC_hP_μC,PiPsC_hC_hC”C,C_hC_hC_hC_h PSP°
P°PeC,PēPIPSC_h C,,PsC_hPjC_h C_h C_hPēP»C_hPSPs PePēC_hP»PsPjC_h C_hP_μC_hP_μPrPsPIPēC%₀C-
C_hP_μPeC_hP_μC,PSC_hPSPēC... PeP°PSP°P»C_hC†C-PI PiP°C_hC-C”C,P°P»C_hPSPēC...
PeP»C-C,PēPS, PrP_μ C-PSPiC-P±C_hC” C,,P_μC_hPjP_μPSC, P_hP_h-P_hP_hP_h-P°P·C_h B_h”
PePēC_hP»PsC,PSC_h PiPsPjPiC_h C,P° PiC_hPēPiPSC-C†C_hC” C_hPIe P±P°P·P°P»C_hPSC_h, C,P°Pe C-
C_hC_h,PēPjC_hP»C_hPSPIP°PSC_h C_hP_μPeC_hP_μC†C-C_h PePēC_hP»PsC,Pē.*

P’PiP»PēPI PSP° C_hP_μPeC_hP_μC†C-C_h CēP»C_hPSPePsPIP_hC— PePēC_hP»PsC,Pē

*P_hP_μC_hP_μP· 5 PrPSC-PI PiP_μC_hPsC_hP°P»C_hPSPsPiPs PiC_hPēPN_hPsPjC_h PiPs 20 PjPi C,P° 40 PjPi
P_μP·PsPjP_μPiC_hP°P·PsP»C_h C_hPIP_μPSC_h C_hP_h CēP»C_hPSPeP° PIPēC%₀P_μ 4
P·P±P_μC_hC-PiP°PIC_hC_h PIC-PrPiPsPIC-PrPSPs PI C_hP_μC_hP_μPrPSC_hPsPjC_h PiC_hPsC,C_hPIPiPsPj
13 PiPsPrPēPS C,P° 17 PiPsPrPēPS PiC_hPsC,C_hPIPiPsPj 24-PiPsPrPēPSPSPsPiPs
C-PSC,P_μC_hPIP°P»C_h C_h PiP°C†C-C”PSC,C-PI C-P· C_hPēPjPiC_h,PsPjP°C,PēC†PSPsC_h
PiP°C_hC,C_hPsP_μP·PsC,,P°PiP_μP°P»C_hPSPsC_h C_hP_μC,,P»C_hPeC_hPSPsC_h C...PiPsC_hPsP±PsC_h
(P”P·P P_h). P·C,,P_μPeC, PiPsPrC-P±PSPēPN_h PSP_μP·P°P»P_μP_hPSPs PIC-Pr C,PsPiPs,
P·P°C_hC,PsC_hPsPIC_hC”C,C_hC_hC_hC_h P_μP·PsPjP_μPiC_hP°P·PsP» PiP_μC_hPsC_hP°P»C_hPSPs C†Pē
PIPSC_hC,C_hC-CēPSC_hPsPIP_μPSPSPs.*

*P—P° PrPsPiPsPjPsPiPsC_h PiP»PsC%₀C- PiC-Pr C,,P°C_hPjP°PePsPeC-PSP_μC,PēC†PSPsC_h
PeC_hPēPIPsC_h B«PePsPSC†P_μPSC,C_hP°C†C-C_hC†P°C_hB» (AUC) C_hPIe
PsPiPsC_hP_μC_hP_μPrPePsPIP°PSPsPiPs PiP°C_hP°PjP_μC,C_hP° PiP»P°P·PjPsPIPsC—
PePsPSC†P_μPSC,C_hP°C†C-C— P±C_hP»Ps PiC_hPsPrP_μPjPsPSC_hC,C_hPsPIP°PSPs P·PiB_h™ C_hPI·PsPe
PjC-P_h PiC_hPēPiPSC-C†P_μPSPSC_hPj PePēC_hP»PsC,PSPsC— C_hP_μPeC_hP_μC†C-C— C,P°
P_μPeC_hPiPsP·PēC†C-C”C_h PiC-C_hP»C_h PiP_μC_hPsC_hP°P»C_hPSPsPiPs
P·P°C_hC,PsC_hC_hPIP°PSPSC_h P_μP·PsPjP_μPiC_hP°P·PsP»C_h.*

*PjPiC_hPsPrPsPIP_h PrPsP±Pē PiC_hPē PIPSC_hC,C_hC-CēPSC_hPsPIP_μPSPSPsPjC_h
PIPIP_μPrP_μPSPSC- P_μP·PsPjP_μPiC_hP°P·PsP»C_h P·PrPsC_hPsPIPēPj PrPsP±C_hPsPIPsP»C_hC†C_hPj
C_h PrPsP·C- 80 PjPi C_h PIPēPiP»C_hPrC- P±PsP»C_hC_hPSPsC— C-PSC,,C_hP·C-C—
C,C_hPēPIP°P»C-C_hC,C_h 30 C...PIPēP»PēPS C-P· PiPsPrP°P»C_hCēPēPj
P·P°C_hC,PsC_hC_hPIP°PSPSC_hPj PiC_hP_μPiP°C_hP°C,C_h C_h PIPēPiP»C_hPrC- C,C_hPēPIP°P»PsC—
PIPSC_hC,C_hC-CēPSC_hPsPIP_μPSPSPsC— C-PSC,,C_hP·C-C— P·C- CēPIPēPrPeC-C_hC,C_h 8
PjPi/PiPsPrPēPSC_h C,C_hPēPIP°P»C-C_hC,C_h 23,5 PiPsPrPēPSPē C_hC-PIP_μPSC_h C_hP_h
CēP»C_hPSPeP° PIPēC%₀P_μ 4 C,P° PIPēC%₀P_μ 6 P·P±P_μC_hC-PiP°PIC_hC_h PIC-PrPiPsPIC-PrPSPs PI
C_hP_μC_hP_μPrPSC_hPsPjC_h PiC_hPsC,C_hPIPiPsPj 21 PiPsPrPēPSPē C,P° 11-13 PiPsPrPēPS
PiC_hPsC,C_hPIPiPsPj 24-PiPsPrPēPSPSPsPiPs C-PSC,P_μC_hPIP°P»C_h.*

*P_hP_μC_hP°PiP_μPIC,PēC†PSPēPN_h P_μC,,P_μPeC, PiC_hPēPiPSC-C†P_μPSPSC_h C_hP_μPeC_hP_μC†C-C—
PePēC_hP»PsC,Pē*

*P>C-PeC_hPIP°PSPSC_h C_hP_μC,,P»C_hPeC_h-P_μP·PsC,,P°PiC-C,C_h P_μP·PsPjP_μPiC_hP°P·PsP»PsPj C_h
PrPsP·C- 40 PjPi PrP_μPjPsPSC_hC,C_hC_hC” P_μC,,P_μPeC,PēPIPSC-C_hC,C_h C_h 78 %
PiP°C†C-C”PSC,C-PI C†P_μC_hP_μP· 4 C,PēP_hPSC- C,P° C_h 93 % PiP°C†C-C”PSC,C-PI C†P_μC_hP_μP· 8
C,PēP_hPSC-PI PiP_μC_hPsC_hP°P»C_hPSPsPiPs PiC_hPēPN_hPsPjC_h PiC_hP_μPiP°C_hP°C,C_h.*

P†PSCēC- P_μC,,P_μPeC,Pē, PiPsPiB_h™ C_hPI·P°PSC- P· PiC_hPēPiPSC-C†P_μPSPSC_hPj

СГРμРμРeСГРμРμC†C-C— РeРëСГРР»PSC,Pë

PJ PìPμCГC-PsPr P»C-PeCрPIP°PSPSCЦ P°PSC,PëCГРμРeСГРμC,PsCГPSPëPjPë
PìCГРμPìP°CГP°C,P°PjPë CГC-PIPμPSCГ PìP°CГC,CГPëPSCр PI CГPëCГPсPìP°C,C†C-
PeCГPсPIC- P·CГPсCГC,P°C" Cр PIC-PrPìPсPIC-PrCГ PSP° P·PSPëP¶PμPSPSCЦ
CГРμРeСГРμC†C-C— РeРëСГРР»PSC,Pë. P C-PIPμPSCГ C...CГPсPjPсPìCГP°PSC-PSCр Pђ (CgA)
C,P°PePсP¶ P·CГPсCГC,P°C" PIPSP°CГР»C-PrPсPe P·PjPμPSCëPμPSPSCЦ
PePëCГРР»PSC,PSPсCГC,C- CëP»CрPSPePсPIPсPìPс CГPсPeCр. PμC-PrPIPëC%PμPSPSCЦ
PeC-P»CГPePсCГC,C- PμPSC,PμCГPсC...CГPсPjP°C,,C-PSPсPìPсPrC-P±PSPëC... PeP»C-C,PëPS
(ECL), PìPсPìBГ™ CЦP·P°PSPμ, PjPсP¶P»PëPIPс, P·C- P·P±C-P»CГCëPμPSPSCЦPj CГC-PIPSCЦ
PìP°CГC,CГPëPSCр, CГPìPсCГC,PμCГC-PìP°P»PсCГCЦ Cр PrPμCЦPePëC... PìP°C†C-C"PSC,C-PI
Cр PìPμCГC-PsPr PrPсPIPìPсC,CГPëPIP°P»PсPìPс P»C-PeCрPIP°PSPSCЦ
PìPμCГPсCГP°P»CГPSPëPj PμP·PсPjPμPìCГP°P·PсP»PсPj.

PќP° C,P»C- PrPсPIPìPсC,CГPëPIP°P»PсPìPс P»C-PeCрPIP°PSPSCЦ PìPμCГPсCГP°P»CГPSPëPjPë
P°PSC,PëCГРμРeСГРμC,PsCГPSPëPjPë PìCГРμPìP°CГP°C,P°PjPë PIC-PrP·PSP°C†P°P»PсCГCЦ
PrPμCЦPePμ P·CГPсCГC,P°PSPSCЦ C†P°CГC,PсC,Pë CрC,PIPсCГРμPSPSCЦ
CëP»CрPSPePсPIPëC... PìP»P°PSPPrCрP»CЦCГPSPëC... PeC-CГC,. PјC- P·PjC-PSPë C"
C,,C-P·C-PсP»PсPìC-C†PSPëPj PSP°CГР»C-PrPePсPj PIPëCГP°P¶PμPSPсPìPс
PìCГPëPìPSC-C†PμPSPSCЦ CГРμРeСГРμC†C-C— CëP»CрPSPePсPIPсPìPс CГPсPeCр, PjP°CГC,CГ
PrPсP±CГPсCЦPeC-CГPSCр C,P° PsP±PсCГPсC,PSCр PìCГPëCГPсPrCр.

P—PjPμPSCëPμPSPSCЦ PePëCГРР»PSC,PSPсCГC,C- CëP»CрPSPePсPIPсPìPс CГPсPeCр P·
P±CрPrCГ-CЦPePëC... PìCГPëC†PëPS, Cр C,PsPjCр C†PëCГР»C- PIPSP°CГР»C-PrPсPe
P·P°CГC,PsCГCрPìP°PSPSCЦ C-PSPìC-P±C-C,PsCГC-PI PìCГPсC,PsPSPSPсC— PìPсPjPìPë
(P†PμPμ), PìCГPëP·PIPсPrPëC,CГ PrPс P·P±C-P»CГCëPμPSPSCЦ Cр CëP»CрPSPeCр
PeC-P»CГPePсCГC,C- P±P°PeC,PμCГC-PNë, C%Ps P·P°P·PIPëC†P°PNë PSP°CЦPIPSC- Cр
CëP»CрPSPePсPIPс-PePëCëPсPIPсPjCр C,CГP°PeC,C-. P·C-PeCрPIP°PSPSCЦ P†PμPμ PjPсP¶Pμ
PrPμC%Ps P·P±C-P»CГCëCрPìP°C,Pë CГPëP·PëPe CëP»CрPSPePсPIPс-PePëCëPсPIPëC...
C-PSC,,PμPeC†C-PNë, P·CрPjPсPIP»PμPSPëC..., PSP°PìCГPëPeP»P°Pr, *Salmonella* C,P°
Campylobacter, C,P° Cр PìPсCГPìC-C,P°P»C-P·PсPIP°PSPëC... PìP°C†C-C"PSC,C-PI, BГ"
PjPсP¶P»PëPIPс, C,P°PePсP¶ *Clostridium difficile*.

P" C-C,Pë

P PμP·CрP»CГC,P°C,Pë, PsC,CГPëPjP°PSC- PI PìCГPсC†PμCГC- PrPсCГР»C-PrP¶PμPSCГ P·P°
CрC†P°CГC,CГ PìP°C†C-C"PSC,C-PI PrPëC,CЦC†PсPìPс PIC-PeCр, PìPсPeP°P·CрCГC,CГ, C%Ps
PrPсP·Pë PμP·PсPjPμPìCГP°P·PсP»Cр 0,5 PjPì/PePì C- 1,0 PjPì/PePì Cр PSPμPjPсPIP»CЦC,
PIC-PePсPj < 1 PjC-CГCЦC†CЦ C- 1-11 PjC-CГCЦC†C-PI PIC-PrPìPсPIC-PrPSPс
P·PSPëP¶CрCГC,CГ CГРμCГРμPrPSC-PNë PIC-PrCГPсC,PsPe C†P°CГCр P·
PIPSCрC,CГC-CëPSCГPсCГC,CГP°PIPсC...C-PrPSPëPj CГPќ < 4.

PμCГPсC,,C-P»CГ P±PμP·PìPμPePë P·P°CГC,PsCГCрPìP°PSPSCЦ PìCГРμPìP°CГP°C,Cр
PIPëCЦPIPëPICГCЦ PìPсPrC-P±PSPëPj PrPс C,PsPìPс, C%Ps CГPìPсCГC,PμCГC-PìP°PICГCЦ Cр
PrPсCГPсCГР»PëC....

PαP°CГPjP°PePсPeC-PSPμC,PëPeP°.

P PsP·PìPсPrC-P»

PJЦPIIPSPëPNë PsP±BГ™ C" Pj CГPсP·PìPсPrC-P»Cр Cр CГC,P°C†C-PsPSP°CГPSPсPjCр
CГC,P°PSC- Cр P·PrPсCГPсPIPëC... PrPсP±CГPсPIPсP»CГC†C-PI CГC,P°PSPсPIPëC,CГ

$$\begin{aligned} &P_{\mathbb{H}}P_{\mu}C, P^{\circ}P \pm P_S P \gg C - P \cdot P_j \quad P_{\mu}P \cdot P_S P_j P_{\mu} \ddot{P}i C \ddot{P}P^{\circ}P \cdot P_S P \gg C r \quad C r \quad \ddot{P}i P^{\circ}C \ddagger C - C''PSC, C - PI \quad C - P \cdot P \gg P_{\mu} \ddot{P}i P_e P \ddot{P}e P_j P \ddot{P}e \\ &P^{\circ}P \pm P_S \quad \ddot{P}i P_S P_j C - C \ddot{P}PSP \ddot{P}e P_j P \ddot{P}e \quad \ddot{P}i P_S C \ddot{P}Cr C \epsilon P_{\mu}PSPSC \ddagger P_j P \ddot{P}e \quad C,, Cr PSPe C \ddagger C - C - \ddot{P}i P_{\mu}C \ddagger C - PSPe P \ddot{P}e \\ &P_j P_S P \ddagger P_{\mu} \quad P \pm Cr C, P \ddot{P}e \quad \ddot{P}i P_S C \ddot{P}Cr C \epsilon P_{\mu}PSP \ddot{P}e P_j. \quad P_j \quad \ddot{P}i P^{\circ}C \ddagger C - C''PSC, C - PI \quad C - P \cdot C, C \ddagger P \ddagger P_e P \ddot{P}e P_j P \ddot{P}e \end{aligned}$$

PĭPsCĤCrC€PμPSPSCĬPjPë C,,CřPSPeC†C-C— PĭPμC‡C-PSPePë C€PIPëPrPeC-CřC,CH
 PjPμC,P°P±PsP»C-P·PjCř P·PSPëP¶CřC”C,CHCřCĬ, PIPSP°CřP»C-PrPsPe C‡PsPiPs
 P·P°PiP°P»CHPSP° PμPeCřPĭPsP·PëC†C-CĬ PμP·PsPjPμPĭCĤP°P·PsP»Cř P·CĤPsCřC,P°C”
 PIPrPIC-C‡C-. PŷPsPjCř PĭP°C†C-C”PSC,P°Pj C-P· P“P·P PĬ C,P° C,CĬP¶PePëPjPë
 PĭPsCĤCrC€PμPSPSCĬPjPë C,,CřPSPeC†C-C— PĭPμC‡C-PSPePë PSPμ CřP»C-Pr
 PĭPμCĤPμPIPëC%oCřPIP°C,Pë PjP°PeCřPëPjP°P»CHPSCř PrPsP·Cř 20 PjPi. Pj CĤP°P·C-
 PIPëCĤP°P·PePë, C%oPs PeCĤPsPIPsC,PsC‡PëC,CH, C,P° C,CĬP¶PePëC... PĭPsCĤCrC€PμPSCĤ
 C,,CřPSPeC†C-C— PĭPμC‡C-PSPePë PĭC-CřP»CĬ PIPiPμPrPμPSPSCĬ PĭPsC‡P°C,PePsPIPsC—
 P±PsP»CĤCřPSPsC— PrPsP·Pë 80 PjPi PIPiPμPrPμPSPSCĬ PĭCĤPμPĭP°CĤP°C,Cř Cř
 PIPëPiP»CĬPrC- C,CĤPëPIP°P»PsC— PIPSCřC,CĤC-C€PSCĤPsPIPμPSPSPsC— C-PSC,,CřP·C-C—
 P·C- C€PIPëPrPeC-CřC,CH PjP°PeCřPëPjCřPj 4 PjPi/PiPsPrPëPSCř PĭCĤPsC,CĬPiPsPj 71,5
 PiPsPrPëPSPë PjPsP¶Pμ P±CřC,Pë PrPsCřC,P°C,PSC-Pj. P·P·PsPjPμPĭCĤP°P·PsP» P°P±Ps
 P№PsPiPs PsCřPSPsPIPsC- PjPμC,P°P±PsP»C-C,Pë PSPμ PIPëCĬPIP»CĬCHC,CH
 C,PμPSPPrPμPSC†C-C— PrPs PSP°PePsPĭPëC‡PμPSPSCĬ PĭCĤPë P·P°CřC,PsCřCřPIP°PSPSC- 1
 CĤP°P· PSP° PrPsP±Cř.

PќPμ PĭCĤPsPIPsPrPëP»PsCřCĬ PrPsCřP»C-PrP¶PμPSCĤ P·P° CřC‡P°CřC,CH
 PĭP°C†C-C”PSC,C-PI P·C- P·PSPëP¶PμPSPsCĤ C,,CřPSPeC†C-C”CĤ PSPëCĤPsPe.
 PĥCřPeC-P»CHPePë PSPëCĤPePë PIC-PrPĭPsPIC-PrP°CĤC,CH P·P° PIPëPIPμPrPμPSPSCĬ
 PjPμC,P°P±PsP»C-C,C-PI PμP·PsPjPμPĭCĤP°P·PsP»Cř, P°P»Pμ PSPμ P·P° PIPëPIPμPrPμPSPSCĬ
 PsCřPSPsPIPsC— CřPĭPsP»CřPePë, P·PjC-PS PjPμC,P°P±PsP»C-P·PjCř PSPμ
 PsC‡C-PeCřC”C,CHCřCĬ Cř PĭP°C†C-C”PSC,C-PI C-P· PĭPsCĤCrC€PμPSPSCĬPjPë
 C,,CřPSPeC†C-C— PSPëCĤPsPe.

PљP»C-PSC-C‡PSC- C...P°CĤP°PeC,PμCĤPëCřC,PëPePë.

PμPsPeP°P·P°PSPSCĬ.

P”PsCĤPsCřP»C-

B· PĥPSC,PëCřPμPeCĤPμC,PsCĤPSP° C,PμCĤP°PĭC-CĬ Cř CĤP°P·C-, PePsP»Pë
 PSPμPjPsP¶P»PëPIPs PIPëPePsCĤPëCřC,P°C,Pë PĭPμCĤPsCĤP°P»CHPSPëP№ C€P»CĬC...
 PIPiPμPrPμPSPSCĬ, PSP°PĭCĤPëPeP»P°Pr:

- PĭP°CřC,CĤPsPμP·PsC,,P°PiPμP°P»CHPSP° CĤPμC,,P»CHPeCřPSP° C...PIPsCĤPsP±P°
 (P“P·P PĬ) Cř PĭP°C†C-C”PSC,C-PI P· PμP·PsC,,P°PiC-C,PsPj C,P°/P°P±Ps C,CĬP¶PePëPjPë
 CřPëPjPĭC,PsPjP°PjPë CĤPμC,,P»CHPeCřCř;

- P»C-PeCřPIP°PSPSCĬ PIPëCĤP°P·PsPe C€P»CřPSPeP°, PĭPsPIBĤ™ CĬP·P°PSPëC... C-P·
 C,PμCĤP°PĭC-C”CĤ PSPμCřC,PμCĤPsC—PrPSPëPjPë PĭCĤPsC,PëP·P°PĭP°P»CHPSPëPjPë
 P·P°CřPsP±P°PjPë (PќPμP—P—);

- PĭPsPĭPμCĤPμPrP¶PμPSPSCĬ PIPëCĤP°P·PsPe C€P»CřPSPeP° C,P°
 PrPIP°PSP°PrC†CĬC,PëPĭP°P»PsC— PePëC€PePë, PĭPsPIBĤ™ CĬP·P°PSPëC... C-P·
 C,PμCĤP°PĭC-C”CĤ PќPμP—P—, Cř PĭP°C†C-C”PSC,C-PI, CĬPeC- PIC...PsPrCĬC,CH PrPs
 PĭCĤCřPĭPë CĤPëP·PëPeCř.

B· PμCĤPsC,,C-P»P°PeC,PëPeP° PĭPsPIC,PsCĤPSPsC— PeCĤPsPIPsC,PμC‡C- Cř
 PĭP°C†C-C”PSC,C-PI PĭC-CřP»CĬ PμPSPPrPsCřPePsPĭC-C‡PSPsPiPs P»C-PeCřPIP°PSPSCĬ
 PĭPsCřC,CĤPsC— PeCĤPsPIPsC,PμC‡C- PIPëCĤP°P·PePë C€P»CřPSPeP° P°P±Ps

PrPIP°PSP°PrC†CЦC,PëPïP°P»PsC— PePëC€PePë.

P°C-C,Pë PIC-PePsPj PIC-Pr 1 PrPs 18 CђPsPeC-PI

B· PђPSC,PëCѓPµPeCђPµC,PсCђPSP° C,PµCђP°PіC-CЦ Cr CђP°P·C-, PePsP»Pë
PSPµPjPsP¶P»PëPIPs PIPëPePsCђPëCѓC,P°C,Pë PïPµCђPsCђP°P»CHPSPëPNë C€P»CЦC...
PIPIPµPrPµPSPSCЦ, PSP°PіCђPëPeP»P°Pr:

- PiP°CѓC,CђPsPµP·PsC,,P°PiPµP°P»CHPSP° CђPµC,,P»CHPeCѓPSP° C...PIPsCђPsP±P°
(P°P·P Pr) Cr PïP°C†C-C°PSC,C-PI P· PµCђPsP·PëPIPSPëPj CђPµC,,P»CHPeCѓPSPëPj
PµP·PsC,,P°PіC-C,PсPj C,P°/P°P±Ps C,CЦP¶PePëPjPë CѓPëPjPіC,PсPjP°PjPë CђPµC,,P»CHPeCѓCr.

PµCђPsC,PëPïPsPeP°P·P°PSPSCЦ.

PµC-PrPIPëC%PµPSP° C†CrC,P»PëPIC-CѓC,CH PrPs PµP·PsPjPµPіCђP°P·PsP»Cr P°P±Ps PrPs
C-PSC€PëC... PePsPjPïPsPSPµPSC,C-PI PіCђPµPïP°CђP°C,Cr, PrPs P·P°PjC-C%PµPSPëC...
P±PµPSP·PëPjC-PrP°P·PsP»C-PI.

P·P·PsPjPµPіCђP°P·PsP» PSPµ CѓP»C-Pr P·P°CѓC,PсCѓPsPICѓPIP°C,Pë PsPrPSPсC†P°CѓPSPs P·
P°C,P°P·P°PSP°PIC-CђPsPj C,P° PSPµP»C,,C-PSP°PIC-CђPsPj (PrPëPI. CђPsP·PrC-P»
B«P°P·P°C°PjPsPrC-CЦ P· C-PSC€PëPjPë P»C-PeP°CђCѓCHPePëPjPë P·P°CѓPsP±P°PjPë C,P°
C-PSC€C- PIPëPrPë PIP·P°C°PjPsPrC-PNëB»).

**P°P·P°C°PjPsPrC-CЦ P· C-PSC€PëPjPë P»C-PeP°CђCѓCHPePëPjPë P·P°CѓPsP±P°PjPë
C,P° C-PSC€C- PIPëPrPë PIP·P°C°PjPsPrC-PNë.**

P°PïP»PëPI PµP·PsPjPµPіCђP°P·PsP»Cѓ PSP° C,,P°CђPjP°PePsPeC-PSPµC,PëPeCѓ C-PSC€PëC...
P»C-PeP°CђCѓCHPePëC... P·P°CѓPsP±C-PI

P†PSPіC-P±C-C,PсCђPë PіCђPsC,PµP°P·Pë

P°C-PrP·PSP°C†PµPSP° PIP·P°C°PjPsPrC-CЦ PsPjPµPіCђP°P·PsP»Cr P· PrPµCЦPePëPjPë
C-PSPіC-P±C-C,PсCђP°PjPë PіCђPsC,PµP°P·Pë. PђP»C-PSC-C†PSP° P·PSP°C†CrC%C-CѓC,CH
C,P° PjPµC...P°PSC-P·PjPë C†PëC... PIP·P°C°PjPsPrC-PNë PSPµ P·P°PIP¶PrPë PIC-PrPsPjC-.
PµC-PrPIPëC%PµPSPSCЦ CђC-PIPSЦ CђPк C€P»CrPSPePsPIPsPіPs CѓPsPeCr PI PïPµCђC-PsPr
C,PµCђP°PіC-C— PsPjPµPіCђP°P·PsP»PsPj PjPsP¶Pµ P·PjC-PSCђPIP°C,Pë
PICѓPjPsPeC,CrPIP°PSPSCЦ C-PSPіC-P±C-C,PсCђC-PI PіCђPsC,PµP°P·Pë. P†PSC€C-
PjPµC...P°PSC-P·PjPë PIP·P°C°PjPsPrC-C— PjPsP¶P»PëPIC- C†PµCђPµP·
PіCђPëPiPSC-C†PµPSPSCЦ CYP2C19.

PµPsPIC-PrPsPjP»CЦP»PsCѓCЦ, C%Ps PіCђPë CѓCrPіCrC,PсCHPsPjCr
P·P°CѓC,PсCѓCrPIP°PSPSC- P· PsPjPµPіCђP°P·PsP»PsPj CђC-PIPµPSCђ
P°C,P°P·P°PSP°PIC-CђCr C,P° PSPµP»C,,C-PSP°PIC-CђCr PI CѓPëCђPsPIP°C,C†C- PeCђPsPIC-
P·PSPëP¶CrPIP°PICѓCЦ, C,PсPjCr PsPrPSPсC†P°CѓPSPµ P·P°CѓC,PсCѓCrPIP°PSPSCЦ PSPµ
CђPµPePsPjPµPSPPrCrC°C,CHCѓCЦ. PђCrPіCrC,PSC° P·P°CѓC,PсCѓCrPIP°PSPSCЦ
PsPjPµPіCђP°P·PsP»Cr (40 PjPi 1 CђP°P· PSP° PrPsP±Cr) P· P°C,P°P·P°PSP°PIC-CђPsPj 300
PjPi/CђPëC,PсPSP°PIC-CђPsPj B B B B B B B B 100 PjPi Cr P·PrPsCђPsPIPëC...
PrPsP±CђPsPIPsP»CHC†C-PI CѓPіCђPëC†PëPSCЦP»Ps P·PSP°C†PSPµ P·PSPëP¶PµPSPSCЦ
PµPeCѓPіPsP·PëC†C-C— P°C,P°P·P°PSP°PIC-CђCr (P·PSPëP¶PµPSPSCЦ AUC, C_{max} C,P°
PjC-PSC-PjP°P»CHPSPсC— PePsPSC†PµPSC,CђP°C†C-C— (C_{min}) PіCђPëP±P»PëP·PSPs PSP° 75
%). PµC-PrPIPëC%PµPSPSCЦ PrPsP·Pë P°C,P°P·P°PSP°PIC-CђCr PrPs 400 PjPi PSPµ

PePsPjPiPμPSCÍCrPIP°P»Ps PIPiP»PēPI PsPjPμPiCĤP°P·PsP»Cr PSP° PμPeCÍPiPsP·PēC†C-ČĤ
P°C,P°P·P°PSP°PIC-ČĤCr. PŸCrPiCíC,PSC” P·P°CÍC,PScÍCrPIP°PSPSCÍ PsPjPμPiCĤP°P·PsP»Cr
(20 PjPi PSP° PrPsP±Cr) P· P°C,P°P·P°PSP°PIC-ČĤPsPj 400 PjPi/ČĤPēC,PSPSP°PIC-ČĤPsPj 100
PjPi Cr P·PrPsČĤPsPIPēC... PrPsP±ČĤPsPIP°P»CHC†C-PI P·PSPēP¶CrPIP°P»Ps
PμPeCÍPiPsP·PēC†C-ČĤ P°C,P°P·P°PSP°PIC-ČĤCr PiCĤPēP±P»PēP·PSPs PSP° 30 %
PiPsCĤC-PIPSČIPSPs P· PμPeCÍPiPsP·PēC†C-C”ČĤ, PIC-PrP·PSP°C†PμPSPsČĤ PiCĤPē
P·P°CÍC,PScÍCrPIP°PSPSC- P°C,P°P·P°PSP°PIC-ČĤCr 300 PjPi/ČĤPēC,PSPSP°PIC-ČĤCr 100 PjPi 1
ČĤP°P· PSP° PrPsP±Cr P±PμP· P·P°CÍC,PScÍCrPIP°PSPSCÍ PsPjPμPiCĤP°P·PsP»Cr PI PrPsP·C-
20 PjPi PSP° PrPsP±Cr. PŸCrPiCíC,PSC” P·P°CÍC,PScÍCrPIP°PSPSCÍ PsPjPμPiCĤP°P·PsP»Cr (40
PjPi PSP° PrPsP±Cr) P·PjPμPSCēCrPIP°P»Ps CÍPμCĤPμPrPSC- P·PSP°C†PμPSPSCÍ AUC, C_{max} C,P°
C_{min} PSPμP»C,,C-PSP°PIC-ČĤCr PSP° 36-39 %, P° CÍPμCĤPμPrPSC- P·PSP°C†PμPSPSCÍ AUC, C_{max}
C,P° C_{min} C,,P°ČĤPjP°PePsP»PsPiC-C†PSPs P°PeC,PēPIPSPiPs PjPμC,P°P±PsP»C-C,Cr PĤ8 BĤ”
PSP° 75-92 %. P§PμCĤPμP· PiPsPrC-P±PSC-CÍC,CH C,,P°ČĤPjP°PePsPrPēPSP°PjC-C†PSPēC...
PμC,,PμPeC,C-PI C,P° C,,P°ČĤPjP°PePsPeC-PSPμC,PēC†PSPēC... PIP»P°CÍC,PēPIPsCÍC,PμPNē
PsPjPμPiCĤP°P·PsP»Cr C,P° PμP·PsPjPμPiCĤP°P·PsP»Cr PSPμ ČĤPμPePsPjPμPSPrCíC”C,CHCÍCÍ
P·P°CÍC,PScÍPsPICíPIP°C,Pē PsPrPSPsC†P°CÍPSPs P· P°C,P°P·P°PSP°PIC-ČĤPsPj (PrPēPI.
ČĤPsP·PrC-P» B«PhCÍPsP±P»PēPIPsCÍC,C- P·P°CÍC,PScÍCrPIP°PSPSCÍB»), P° CÍCrPiCíC,PSC”
P·P°CÍC,PScÍCrPIP°PSPSCÍ PμP·PsPjPμPiCĤP°P·PsP»Cr C,P° PSPμP»C,,C-PSP°PIC-ČĤCr
PiCĤPsC,PēPiPsPeP°P·P°PSPμ (PrPēPI. ČĤPsP·PrC-P» B«PμCĤPsC,PēPiPsPeP°P·P°PSPSCÍB»).

PμC-PrPIPēC%PμPSPSCÍ PePsPSC†PμPSC,ČĤP°C†C-C— CÍP°PePIC-PSP°PIC-ČĤCr (C%Ps
P·P°CÍC,PScÍPsPICíPIP°PICÍCÍ PsPrPSPsC†P°CÍPSPs P· ČĤPēC,PSPSP°PIC-ČĤPsPj) Cr
CÍPēČĤPsPIP°C,C†C- PeČĤPsPIC- (80-100 %) CÍPiPsCÍC,PμCĤC-PiP°P»PScÍCÍ PiCĤPē
CÍCrPiCíC,PSCĤPsPjCr P·P°CÍC,PScÍCrPIP°PSPSC- PsPjPμPiCĤP°P·PsP»Cr (PI PrPsP·C- 40 PjPi
PSP° PrPsP±Cr). PhPjPμPiCĤP°P·PsP» Cr PrPsP·C- 20 PjPi PSP° PrPsP±Cr PSPμ PIPiP»PēPIP°PI
PSP° PμPeCÍPiPsP·PēC†C-ČĤ PrP°ČĤCrPSP°PIC-ČĤCr (C%Ps P·P°CÍC,PScÍPsPICíPIP°PICÍCÍ
PsPrPSPsC†P°CÍPSPs P· ČĤPēC,PSPSP°PIC-ČĤPsPj) C,P° P°PjPiCĤPμPSP°PIC-ČĤCr (Cr
PiPsC”PrPSP°PSPSC- P· ČĤPēC,PSPSP°PIC-ČĤPsPj). P—P°CÍC,PScÍCrPIP°PSPSCÍ
PμP·PsPjPμPiCĤP°P·PsP»Cr PI PrPsP·C- 20 PjPi PSP° PrPsP±Cr PSPμ PIPiP»PēPIP°P»Ps PSP°
PμPeCÍPiPsP·PēC†C-ČĤ P°PjPiCĤPμPSP°PIC-ČĤCr (Cr PiPsC”PrPSP°PSPSC- P·
ČĤPēC,PSPSP°PIC-ČĤPsPj C†Pē PsPeČĤPμPjPs). P—P°CÍC,PScÍCrPIP°PSPSCÍ
PsPjPμPiCĤP°P·PsP»Cr PI PrPsP·C- 40 PjPi PSP° PrPsP±Cr PSPμ P·PjC-PSCĤPIP°P»Ps
PμPeCÍPiPsP·PēC†C-ČĤ P»PsPiC-PSP°PIC-ČĤCr (Cr PiPsC”PrPSP°PSPSC- P·
ČĤPēC,PSPSP°PIC-ČĤPsPj).

PĤPμC,PsC,ČĤPμPeCÍP°C,

PμCĤPē P·P°CÍC,PScÍCrPIP°PSPSC- PjPμC,PsC,ČĤPμPeCÍP°C,Cr ČĤP°P·PsPj C-P· P†PμPμ
PNēPsPiPs ČĤC-PIPμPSCĤ PiC-PrPIPēC%CrPIP°PICÍCÍ Cr PrPμCÍPePēC... PiP°C†C-C”PSC,C-PI.
PμCĤPē P·P°CÍC,PScÍCrPIP°PSPSC- PjPμC,PsC,ČĤPμPeCÍP°C,Cr PI PIPēCÍPsPePēC...
PrPsP·P°C... CÍP»C-Pr ČĤPsP·PiP»CÍPSCíC,Pē PjPsP¶P»PēPIC-CÍC,CH C,PēPjC†P°CÍPsPIPsC—
PIC-PrPjC-PSPē PμP·PsPjPμPiCĤP°P·PsP»Cr.

PjP°PeČĤPsP»C-PjCíCÍ

PμCĤPē PsPrPSPsC†P°CÍPSPsPjCr P·P°CÍC,PScÍCrPIP°PSPSC-
PμP·PsPjPμPiCĤP°P·PsP»Cr P·P°C,,C-PeCÍPsPIP°PSPs PiC-PrPIPēC%PμPSPSCÍ
ČĤC-PIPSČÍ C,P°PeČĤPsP»C-PjCíCÍCr PI CÍPēČĤPsPIP°C,C†C- PeČĤPsPIC-.
PμPsC,ČĤC-P±PSPs PiCĤPsPIPsPrPēC,Pē PiPsCÍPēP»PμPSPēPNē PjPsPSC-C,PsČĤPēPSPi
PePsPSC†PμPSC,ČĤP°C†C-C— C,P°PeČĤPsP»C-PjCíCÍCr, P° C,P°PePsP¶
C,,CíPSPeC†C-C— PSPēČĤPsPe (PeP»C-ČĤPμPSCÍ PeČĤPμP°C,PēPSC-PSCí), PiCĤPē

PSPμPsP±C...C-PrPSPsCfC,C- бҗ" PIC-PrPePsCҗPëPiCfPIP°C,Pë PrPsP·CfPIP°PSPSClI
C,P°PeCҗPsP»C-PjCfCfCf.

P>C-PeP°CҗCfCҗPeC- P·P°CfPsP±Pë, PICfPjPsPeC,CáPIP°PSPSClI CлPePëC...
P·P°P»PμP¶PëC,CH PIC-Pr CҗPк

P—PjPμPSC€PμPSPSClI PePëCfP»PsC,PSPsCfC,C- C€P»CfPSPePsPIPsPiPs CfPsPeCf PiC-Pr
C±P°Cf P»C-PeCfPIP°PSPSClI PμP·PsPjPμPіCҗP°P·PsP»PsPj C,P° C-PSC€PëPjPë P†PμPμ PjPsP¶Pμ
P·PSPëP¶CfPIP°C,Pë P°P±Ps PiC-PrPIPëC%оCfPIP°C,Pë P°P±CfPsCҗP±C†C-CH
P»C-PeP°CҗCfCҗPePëC... P·P°CfPsP±C-PI, PICfPjPsPeC,CfPIP°PSPSClI CлPePëC...
P·P°P»PμP¶PëC,CH PIC-Pr CҗC-PIPSClI CҗPк C€P»CfPSPePsPIPsPiPs CfPsPeCf. PİPe C- PіCҗPë
P·P°CfC,PsCfCfPIP°PSPSC- C-PSC€PëC... P»C-PeP°CҗCfCҗPePëC... P·P°CfPsP±C-PI, C%оPs
P·PjPμPSC€CfCҗC,CH PePëCfP»PsC,PSC-CfC,CH C€P»CfPSPePsPIPsPiPs CfPsPeCf,
PICfPjPsPeC,CfPIP°PSPSClI C,P°PePëC... P»C-PeP°CҗCfCҗPePëC... P·P°CfPsP±C-PI CлPe
PePμC,PsPePsPSP°P·PsP», C-C,CҗP°PePsPSP°P·PsP» C,P° PμCҗP»PsC,PëPSC-P± PjPsP¶Pμ
PіPsCfP»P°P±P»CҗHIP°C,PëCfCлI, P° PICfPjPsPeC,CfPIP°PSPSClI PrPëPiPsPeCfPëPSCr бҗ"
PіPsCfPëP»CҗHIP°C,PëCfCлI PI PіPμCҗC-PsPr P·P°CfC,PsCfCfPIP°PSPSClI
PμP·PsPjPμPіCҗP°P·PsP»Cf. PμCҗPë CfCfPіCfC,PSCHPsPjCf P·P°CfC,PsCfCfPIP°PSPSC-
PsPjPμPіCҗP°P·PsP»Cf (20 PjPi PSP° PrPsP±Cf) C,P° PrPëPiPsPeCfPëPSCr Cf P·PrPsCҗPsPIPëC...
PrPsP±CҗPsPIPsP»CHC†C-PI P±C-PsPrPsCfC,CfPiPSC-CfC,CH PrPëPiPsPeCfPëPSCr
P·CҗPsCfC,P°P»P° PSP° 10 % (PrPs 30 % Cf PrPIPsC... C-P· PrPμCfCлI,C,Pë
CfC±P°CfPSPëPeC-PI). PŷPsPeCfPëC±PSC- PμC,,PμPeC,Pë PrPëPiPsPeCfPëPSCr
PIC-PrP·PSP°C±P°P»PëCfCлI P·CҗC-PrPeP°. PhPrPSP°Pe CfP»C-Pr
PrPsC,CҗPëPjCfPIP°C,PëCfCлI PsP±PμCҗPμP¶PSPsCfC,C- PіCҗPë P·P°CfC,PsCfCfPIP°PSPSC-
PIPëCfPsPePëC... PrPsP· PμP·PsPjPμPіCҗP°P·PsP»Cf PіP°C†C-C"PSC,P°Pj P»C-C,PSCHPsPiPs
PIC-PeCf. PμPsC,CҗC-P±PSPs PіPsCfPëP»PëC,Pë PjPsPSC-C,PsCҗPëPSPi
PePsPSC†PμPSC,CҗP°C†C-C— PrPëPiPsPeCfPëPSCr Cf PeCҗPsPIC- PіP°C†C-C"PSC,P°.

P>C-PeP°CҗCfCҗPeC- P·P°CfPsP±Pë, C%оPs PjPμC,P°P±PsP»C-P·CзCHC,CHCfCлI CYP2C19

P·P·PsPjPμPіCҗP°P·PsP» PіCҗPëPiPSC-C±CfC" CYP2C19 бҗ" PsCfPSPsPIPsPëPNө
C,,PμCҗPjPμPSC,, C%оPs PjPμC,P°P±PsP»C-P·CfC" PμP·PsPjPμPіCҗP°P·PsP». PŷPsPjCf PіCҗPë
PіPsC"PPrPSP°PSPSC- PμP·PsPjPμPіCҗP°P·PsP»Cf P· P»C-PeP°CҗCfCҗPePëPjPë
P·P°CfPsP±P°PjPë, C%оPs PjPμC,P°P±PsP»C-P·CfCҗC,CHCfCлI CYP2C19, C,P°PePëPjPë CлPe
PrC-P°P·PμPіP°Pj, C†PëC,P°P»PsPіCҗP°Pj, C-PjC-PіCҗP°PjC-PS, PeP»PsPjC-PіCҗP°PjC-PS,
C,,PμPSC-C,PsC—PS, PePsPSC†PμPSC,CҗP°C†C-CлI C†PëC... PіCҗPμPіP°CҗP°C,C-PI Cf
PіP»P°P·PjC- PeCҗPsPIC- PjPsP¶Pμ P·CҗPsCfC,P°C,Pë C- PjPsP¶Pμ P±CfC,Pë
PіPsC,CҗC-P±PSPëPj P·PjPμPSC€PμPSPSClI C—C... PrPsP·. P"PsCfP»C-PrP¶PμPSPSClI
PIP·P°C"PjPsPrC-C— in vivo C-P· P·P°CfC,PsCfCfPIP°PSPSClI Pj C,,PsCҗPjPë
PіCҗPμPіP°CҗP°C,Cf PrP»CлI PIPSCrC,CҗC-C€PSCHPsPIPsPSPSPsPiPs PIPiPμPrPμPSPSClI Cf
PIPμP»PëPePëC... PrPsP·P°C... (80 PjPi 8 PjPi/PiPsPrPëPSCr) PSPμ PіCҗPsPIPsPrPëP»PëCfCлI.
P'PіP»PëPI PμP·PsPjPμPіCҗP°P·PsP»Cf PSP° P»C-PeP°CҗCfCҗPeC- P·P°CfPsP±Pë, C%оPs
PjPμC,P°P±PsP»C-P·CfCҗC,CHCfCлI CYP2C19, PSP° C,P»C- C,P°PePsPiPs CҗPμP¶PëPjCf
P»C-PeCfPIP°PSPSClI PjPsP¶Pμ P±CfC,Pë P±C-P»CHC€ PIPëCҗP°P¶PμPSPëPj, C- P·P°
PіP°C†C-C"PSC,P°PjPë PіCҗPsC,CлPiPsPj 3-PrPμPSPSPsPiPs PіPμCҗC-PsPrCf
PIPSCrC,CҗC-C€PSCHPsPIPsPSPSPsPiPs PIPiPμPrPμPSPSClI PіCҗPμPіP°CҗP°C,Cf CfP»C-Pr
PіPëP»CHPsPs CfC,PμP¶PëC,Pë C%оPsPrPs CҗPsP·PIPëC,PeCf PіPsP±C-C±PSPëC...
CҗPμP°PeC†C-PNө.

P"C-P°P·PμPіP°Pj

PŷCfPіCfC,PSC-PNө PіPμCҗPsCҗP°P»CHPsPëPNө PіCҗPëPNөPsPj 30 PjPi

PJ PeP»C-PSC-C‡PSPsPjCr PrPsCfP»C-PrP¶PµPSPSC- P±CfP»Ps PiPsPeP°P·P°PSPs, C%oPs
PiC¶Pë CfCrPiCrC,PSCHPsPjCr PiPµC¶PSPsC¶P°P»CHPSPsPjCr P·P°CfC,PsCfCrPIP°PSPSC-
PµP·PsPjPµPiC¶P°P·PsP»Cr PI PrPsP·C- 40 PjPi Cr PiP°C†C-C”PSC,C-PI PSP° C,P»C-
C,PµC¶P°PiC-C— PIP°C¶C,,P°C¶PëPSPsPj C‡P°Cf PePsP°PiCrP»C¶C†C-C— P·P°P»PëC€P°PICfC¶
Cr PiC¶PëPNëPSC¶C,PSPëC... PjPµP¶P°C.... PhPrPSP°Pe Cr
PiPsCfC,PjP°C¶PePµC,PëPSPiPsPIPëPNë PiPµC¶C-PsPr PSP° C,P»C- P·P°CfC,PsCfCrPIP°PSPSC¶
PiPµC¶PSPsC¶P°P»CHPSPsPiPs PµP·PsPjPµPiC¶P°P·PsP»Cr P·P°C,,C-PeCfPsPIP°PSPs
PeC-P»CHPeP° PsPeC¶PµPjPëC... PIPëPiP°PrPeC-PI PeP»C-PSC-C‡PSPs P·PSP°C‡CrC%oPsPiPs
PiC-PrPIPëC%oPµPSPSC¶ PjC-P¶PSP°C¶PsPrPSPsPiPs PSPsC¶PjP°P»C-P·PsPIP°PSPsPiPs

PIC-PrPSPsC€PµPSPSCЦ (PҺPќP') PĭCĥPĕ CĭCĭPĭCĭC,PSCHbPsPjCĭ P·P°CĭC,PsCĭCĭPIP°PSPSC-
C†PĕC... P»C-PeP°CĥCĭCHbPePĕC... P·P°CĭPsP±C-PI. P PµPePsPjPµPSPPrCĭC"C,CHbCĭCЦ
PĭCĥPsPIPPrPĕC,Pĕ PjPsPSC-C,PsCĥPĕPSPi PSP° PĭPsC†P°C,PeCĭ C,P° PSP°PĭCĥPĕPeC-PSC†C-
CĭCĭPĭCĭC,PSCHbPsPiPs P·P°CĭC,PsCĭCĭPIP°PSPSCЦ PµP·PsPjPµPĭCĥP°P·PsP»Cĭ C,P°
PIP°CĥC,,P°CĥPĕPSCĭ P°P±Ps C-PSC€PĕC... PeCĭPjP°CĥPĕPSPsPIPĕC... PĭPsC...C-PrPSPĕC....

PµP»PsPĭC-PrPsPĭCĥPµP»CHb

P PµP·CĭP»CHbC,P°C,Pĕ PsC†C-PSPePĕ C,,P°CĥPjP°PePsPeC-PSPµC,PĕC†PSPsC—
(PαPЉ)/C,,P°CĥPjP°PePsPrPĕPSP°PjC-C†PSPsC— (PαP") PIP·P°C"PjPsPrC-C— PjC-P¶
PeP»PsPĭC-PrPsPĭCĥPµP»PµPj (PSP°PIP°PSC,P°P¶CĭPIP°P»CHbPSP° PrPsP·P° 300
PjPi/PĭC-PrC,CĥPĕPjCĭCĥC†P° PrPsP·P° 75 PjPi PSP° PrPsP±Cĭ) C,P°
PµP·PsPjPµPĭCĥP°P·PsP»PsPj (PĭPµCĥPsCĥP°P»CHbPSPs 40 PjPi PSP° PrPsP±Cĭ),
PsC,CĥPĕPjP°PSC- PĭC-Pr C†P°Cĭ PĭCĥPsPIPµPrPµPSPSCЦ PrPsCĭP»C-PrP¶PµPSCHb P·P°
CĭC†P°CĭC,CH P·PrPsCĥPsPIPĕC... PrPsP±CĥPsPIPPrP»CHbC†C-PI, PĭPsPeP°P·P°P»Pĕ
P·PSPĕP¶PµPSPSCЦ PµPeCĭPĭPsP·PĕC†C-C— P°PeC,PĕPIPSPsPiPs PjPµC,P°P±PsP»C-C,Cĭ
PeP»PsPĭC-PrPsPĭCĥPµP»CH PI CĭPµCĥPµPrPSCHbPsPjCĭ PSP° 40 % C- P·PSPĕP¶PµPSPSCЦ
PjP°PeCĭPĕPjP°P»CHbPSPsPiPs PĭPsPeP°P·PSPĕPeP° C-PSPiC-P±CĭPIP°PSPSCЦ
(C-PSPPrCĭPePsPIP°PSPsC— PђP"Pα) P°PĭCĥPµPiP°C†C-C— C,CĥPsPjP±PsC†PĕC,C-PI Cĭ
CĭPµCĥPµPrPSCHbPsPjCĭ PSP° 14 %.

PµC-Pr C†P°Cĭ PĭCĥPsPIPµPrPµPSPSCЦ PrPsCĭP»C-PrP¶PµPSPSCЦ P·P° CĭC†P°CĭC,CH
P·PrPsCĥPsPIPĕC... PrPsP±CĥPsPIPPrP»CHbC†C-PI, PePsP»Pĕ PeP»PsPĭC-PrPsPĭCĥPµP»CHb
P·P°CĭC,PsCĭPsPICĭPIP°PICĭCЦ CĥP°P·PsPj C-P· PµP·PsPjPµPĭCĥP°P·PsP»PsPj C-
P°C†PµC,PĕP»CĭP°P»C-C†PĕP»PsPIPPrP PePĕCĭP»PsC,PsCĥ (PђPŸPЉ) Cĭ
C,,C-PeCĭPsPIP°PSC-P№ PePsPjP±C-PSP°C†C-C— PrPsP· (20 PjPi 81 PjPi PIC-PrPĭPsPIC-PrPSPs)
PĭPsCĥC-PIPSЦPSPs P·C- P·P°CĭC,PsCĭCĭPIP°PSPSCЦPj PeP»PsPĭC-PrPsPĭCĥPµP»CH Cĭ
PIPĕPiP»CЦPrC- PjPsPSPsC,PµCĥP°PĭC-C—, PIC-PrP·PSP°C†P°P»PsCĭCЦ P·PSPĕP¶PµPSPSCЦ
PµPeCĭPĭPsP·PĕC†C-C— P°PeC,PĕPIPSPsPiPs PjPµC,P°P±PsP»C-C,Cĭ PeP»PsPĭC-PrPsPĭCĥPµP»CH
PjP°P№P¶Pµ PSP° 40 %. PђPrPSP°Pe PjP°PeCĭPĕPjP°P»CHbPSPĕP№ CĥC-PIPµPSCHb
C-PSPiC-P±CĭPIP°PSPSCЦ (C-PSPPrCĭPePsPIP°PSPsC— PђP"Pα) P°PĭCĥPµPiP°C†C-C—
C,CĥPsPjP±PsC†PĕC,C-PI Cĭ C†PĕC... PsCĭC-P± P±CĭPI PsPrPSP°PePsPIPĕP№ Cĭ PĭCĥCĭPĭC-
P·P°CĭC,PsCĭCĭPIP°PSPSCЦ PeP»PsPĭC-PrPsPĭCĥPµP»CH CЦPe PjPsPSPsC,PµCĥP°PĭC-C— C- PI
PĭCĥCĭPĭC- P·P°CĭC,PsCĭCĭPIP°PSPSCЦ PeP»PsPĭC-PrPsPĭCĥPµP»CH CĥP°P·PsPj P·
PµP·PsPjPµPĭCĥP°P·PsP»PsPj C- PђPŸPЉ.

PJ CĭPĭPsCĭC,PµCĥPµP¶PSPĕC... C- PeP»C-PSC-C†PSPĕC... PrPsCĭP»C-PrP¶PµPSPSCЦC...
PsC,CĥPĕPjP°PSPs CĭCĭPĭPµCĥPµC†P»PĕPIC- PrP°PSC- C%PsPrPs PeP»C-PSC-C†PSPĕC...
P°CĭPĭPµPeC,C-PI PαPЉ/PαP" PIP·P°C"PjPsPrC-C— PµP·PsPjPµPĭCĥP°P·PsP»Cĭ C%PsPrPs
PIPµP»PĕPePĕC... CĭPµCĥC†PµPIPs-CĭCĭPrPĕPSPSPĕC... PĭPsPrC-P№. PĭPe
P·P°PĭPsP±C-P¶PSPĕP№ P·P°C...C-Pr PsPrPSPsC†P°CĭPSPsPiPs P·P°CĭC,PsCĭCĭPIP°PSPSCЦ
PµP·PsPjPµPĭCĥP°P·PsP»Cĭ C,P° PeP»PsPĭC-PrPsPĭCĥPµP»CH PSPµPsP±C...C-PrPSPs
CĭPSPĕPeP°C,Pĕ.

*P»C-PeP°CĥCĭCHbPeC- P·P°CĭPsP±Pĕ, C%Ps PSPµ PjP°CHb,CHb PeP»C-PSC-C†PSPs
PIP°P¶P»PĕIPsC— PIP·P°C"PjPsPrC-C—*

PђPjPsPeCĭPĕC†PĕP»C-PS P°P±Ps C...C-PSC-PrPĕPS

P'CĭP»Ps PĭPsPeP°P·P°PSPs, C%Ps PµP·PsPjPµPĭCĥP°P·PsP» PeP»C-PSC-C†PSPs
P·PSP°C†CĭC%Pµ PSPµ PIPĭP»PĕPIP°PI PSP° C,,P°CĥPjP°PePsPeC-PSPµC,PĕPeCĭ
P°PjPsPeCĭPĕC†PĕP»C-PSCĭ P°P±Ps C...C-PSC-PrPĕPSCĭ.

PkP°PīCḡPsPeCÍPμPS P°P±Ps CḡPsC,,PμPePsPeCÍPēP±

*P°PsCÍP»C-PrP¶PμPSPSCḡ, C°%Ps PīCḡPsPIPsPrPēP»PēCÍCḡ PīCḡPē PsPrPSPsC±P°CÍPSPsPjCí
P·P°CÍC,PsCÍCíPIP°PSPSC- PμP·PsPjPμPīCḡP°P·PsP»Cí C- PSP°PīCḡPsPeCÍPμPSCí P°P±Ps
CḡPsC,,PμPePsPeCÍPēP±Cí, PSPμ PIPēCḡPIPēP»Pē P±CíPrCḡ-ClPePēC... PeP»C-PSC-C±PSPs
P·PSP°C±PēPjPēC... C,,P°CḡPjP°PePsPeC-PSPμC,PēC±PSPēC... PIP·P°C°PjPsPrC-PNḡ PīC-Pr C±P°CÍ
PePsCḡPsC,PePsC,PμCḡPjC-PSPsPIPēC... PrPsCÍP»C-PrP¶PμPSCḡ.*

*P°PīP»PēPI C-PSCēPēC... P»C-PeP°CḡCÍCḡPePēC... P·P°CÍPsP±C-PI PSP°
C,,P°CḡPjP°PePsPeC-PSPμC,PēPēCḡ PμP·PsPjPμPīCḡP°P·PsP»Cḡ*

*P>C-PeP°CḡCÍCḡPeC- P·P°CÍPsP±Pē, C°%Ps PīCḡPēPiPSC-C±CḡCḡC,ḡ CYP2C19 C,P°/P°P±Ps
CYP3Pḡ4*

*P·P·PsPjPμPīCḡP°P·PsP» PjPμC,P°P±PsP»C-P·CíC°C,ḡCḡCÍCḡ CYP2C19 C,P° CYP3Pḡ4.
PŸCíPīCíC,PSC° PīPμCḡPsCḡP°P»ḡḡPSPμ P·P°CÍC,PsCÍCíPIP°PSPSCḡ
PμP·PsPjPμPīCḡP°P·PsP»Cí C,P° C-PSPiC-P±C-C,PsCḡP° CYP3Pḡ4
PeP»P°CḡPēC,CḡPsPjC-C±PēPSCí (500 PjPi 2 CḡP°P·Pē PSP° PrPsP±Cí) PīCḡPēP·PIPsPrPēP»Ps
PrPs PīPsPrPIPsC°PSPSCḡ AUC PμP·PsPjPμPīCḡP°P·PsP»Cí. PŸCíPīCíC,PSC°
P·P°CÍC,PsCÍCíPIP°PSPSCḡ PμP·PsPjPμPīCḡP°P·PsP»Cí C,P° PePsPjP±C-PSPsPIP°PSPsPiPs
C-PSPiC-P±C-C,PsCḡP° CYP2C19 C- CYP3Pḡ4 PjPsP¶Pμ PīCḡPēP·PIPsPrPēC,Pē PrPs
P·CḡPsCÍC,P°PSPSCḡ PμPeCÍPīPsP·PēC±C-C— PμP·PsPjPμPīCḡP°P·PsP»Cí P±C-P»ḡḡCēPμ
PSC-P¶ CíPrPIC-C±C-. P±PSPiC-P±C-C,PsCḡ CYP2C19 C,P° CYP3Pḡ4 PIPsCḡPēPePsPSP°P·PsP»
P·P±C-P»ḡḡCēCíPIP°PI AUCτ PsPjPμPīCḡP°P·PsP»Cí PSP° 280 %. PḡPsCḡPμPeC±C-Cl PrPsP·Pē
PμP·PsPjPμPīCḡP°P·PsP»Cí PSPμ P·P°PIP¶PrPē PīPsC,CḡC-P±PSP° PI C,P°PePēC...
CÍPēC,CíP°C±C-ClC.... PhPrPSP°Pe PIPsPSP° PjPsP¶Pμ P±CíC,Pē PSPμPsP±C...C-PrPSPsCḡ
PrP»Cḡ PīP°C±C-C°PSC,C-PI C-P· C,ClP¶PePēPjPē PīPsCḡCíCēPμPSPSCḡPjPē C,,CíPSPeC±C-C—
PīPμC±C-PSPePē C,P° Cí PIPēPīP°PrPeP°C..., PePsP»Pē PīPsPeP°P·P°PSPμ
PrPsPIPiPsC,CḡPēPIP°P»Pμ P»C-PeCíPIP°PSPSCḡ.*

*P>C-PeP°CḡCÍCḡPeC- P·P°CÍPsP±Pē, ClPeC- C-PSPrCḡPeCḡCḡC,ḡ P°PeC,PēPIPSC-CÍC,ḡḡ
CYP2C19 C,P°/P°P±Ps CYP3A4*

*P>C-PeP°CḡCÍCḡPeC- P·P°CÍPsP±Pē (C,P°PeC- ClPe CḡPēC,,P°PjPīC-C±PēPS C,P°
P·PIC-CḡPsP±C-PNḡ), P·PrP°C,PSC- CÍC,PēPjCíP»ḡḡPIP°C,Pē CYP2C19 C±Pē CYP3Pḡ4 P°P±Ps
PsP±PēPrPIP° C±C- C,,PμCḡPjPμPSC,Pē, PjPsP¶CíC,ḡ P·PSPēP¶CíPIP°C,Pē
PePsPSC±PμPSC,CḡP°C±C-Cḡ PμP·PsPjPμPīCḡP°P·PsP»Cí PI CÍPēCḡPsPIP°C,C±C- PeCḡPsPIC-
CēP»CḡC...PsPj PīPsCÍPēP»PμPSPSCḡ PNḡPsPiPs PjPμC,P°P±PsP»C-P·PjCí.*

P°C-C,Pē

*P°PsCÍP»C-PrP¶PμPSPSCḡ P»C-PeP°CḡCÍCḡPePsC— PIP·P°C°PjPsPrC-C—
PīCḡPsPIPsPrPēP»PēCÍCḡ C,C-P»ḡḡPePē P·P° CíC±P°CÍC,Cḡ PrPsCḡPsCÍP»PēC....*

PhCÍPsP±P»PēPIPsCÍC,C- P·P°CÍC,PsCÍCḡPIP°PSPSCḡ.

*Pj CḡP°P·C- P±CíPrCḡ-ClPePēC... C,CḡPēPIPsP¶PSPēC... CÍPēPjPīC,PsPjC-PI (C,P°PePēC...
ClPe, PSP°PīCḡPēPeP»P°Pr, P·PSP°C±PSPμ PSPμPīPμCḡPμPrP±P°C±CíPIP°PSPμ
P·PSPēP¶PμPSPSCḡ PjP°CÍPē C,C-P»P°, PīPμCḡC-PsPrPēC±PSPμ P±P»ḡḡPIP°PSPSCḡ,
PrPēCÍC,,P°PiC-Cl, PiPμPjP°C,PμPjPμP·PēCÍ P°P±Ps PjPμP»PμPSP°) C,P° PīCḡPē
PīC-PrPsP·CḡC- PSP° PIPēCḡP°P·PeCí CēP»CíPSPeP° C±Pē PīCḡPē C—C— PSP°ClPIPSPsCÍC,C-*

СГР»С-Рr PIPePeP»CFC#Pec,Pe P·P»PscIIPeC-СГPSPμ P·P°С...PIPsCFCPIP°PSPSCII,
PsCIPeC-Р»CHPePe PμP·PsPjPμPiCFCP°P·PsP» PjPsP¶Pμ PiCFCPeC...PsPICrPIP°С,Pe
СГPePjPiC,PsPjPe C,P° P·P°С,CFPePjCrPIP°С,Pe PICFC,P°PSPsPIP»PμPSPSCII PrC-P°PiPSPsP·Cr.

PEP»CzPSPePsPIPs-PePeCePePsPIC- C-PSC„PμPeCtC-C—

PγPμCFP°PiC-Cl P†PμPμ PjPsP¶Pμ PrPμC%Ps P·P±C-P»CHCeCrPIP°С,Pe CFPeP·PePe
CeP»CrPSPePsPIPs-PePeCePePsPIPec... C-PSC„PμPeCtC-PN, C,P°PePeC... ClPe
C-PSC„PμPeCtC-C—, P·CrPjPsPIP»PμPSC- Salmonella C,P° CP°mpylobacter (PrPePI.
CFPsP·PrC-P» B«PαP°CFPjP°PePsPrPePSP°PjC-PeP°B»).

P'CrPjPsPeC,CzPIP°PSPSCII PIC-C,P°PjC-PSCz P'12

P·P·PsPjPμPiCFCP°P·PsP», ClPe C- PICFC- P»C-PeP°CFCrCHPeC- P·P°CrPsP±Pe, C%Ps
P±P»PsPeCrCFC,CH CrPμPeCFPμCtC-CFC PePeCrP»PsC,Pe, PjPsP¶Pμ
PiCFCPePiPSC-C#CrPIP°С,Pe PICFCPjPsPeC,CrPIP°PSPSCII PIC-C,P°PjC-PSCr P'12
(CtC-P°PSPsPePsP±P°P»P°PjC-PSCr) PIPSP°CrP»C-PrPsPe PiC-PiPs- P°P±Ps
P°С...P»PsCFPiC-PrCFC-C—. P|Pμ CrP»C-Pr PjP°С,Pe PSP° CrPIP°P·C- PiCFPe
P·P°CrC,PsCFCrPIP°PSPSC- PiCFPμPiP°CFP°С,Cr PiP°CtC-C"PSC,P°Pj P·C- P·PSPeP¶PμPSPePj
P·P°PiP°CrPsPj PIC-C,P°PjC-PSCr PI PsCFPiP°PSC-P·PjC- P°P±Ps C„P°PeC,PsCFP°PjPe
CFPeP·PePeCr PiPsPiC-CFCePμPSPsPiPs PICFCPjPsPeC,CrPIP°PSPSCII PIC-C,P°PjC-PSCr P'12
PiCFPe PrPsPIPiPsC,CFPePiP°P»C-PN C,PμCFP°PiC-C—.

P"C-PiPsPjP°PiPSC-C"PjC-Cl

P'PePiP°PrPePe C,ClP¶PePsC— PiC-PiPsPjP°PiPSC-C"PjC-C— PIC-PrP·PSP°C#P°P»PeCrCl Cr
PiP°CtC-C"PSC,C-PI, ClPeC- PiCFPePNjP°P»Pe P†PμPμ, C,P°PeC- ClPe
PμP·PsPjPμPiCFCP°P·PsP», PiCFPsC,ClPiPsPj C%PsPSP°PNjPμPSCePμ C,CFCHPsC...
PjC-CFCtCtC-PI, P° Cr P±C-P»CHCePsCrC,C- PIPePiP°PrPeC-PI BFC" PiCFPsC,ClPiPsPj
CFPsPeCr. P"C-PiPsPjP°PiPSC-C"PjC-Cl PjPsP¶Pμ PjP°С,Pe CrPμCFPNPsP·PSC- PiCFPsClPIPe,
C,P°PeC- ClPe PIC,PsPjP°, C,PμC,P°PSC-Cl, PrPμP»C-CFC-PN, CrCrPrPsPjPe,
P·P°PiP°PjPsCFPsC#PμPSPSCII C,P° CeP»CrPSPsC#PePsPIP° P°CFPeC,PjC-Cl, P°P»Pμ C—C...
CFPsP·PIPec,PsPe PjPsP¶Pμ P±CrC,Pe PiPsCrC,CrPiPsPiP°Pj C,P° P»PeCeP°С,PeCrCl
PSPμPiPsPjC-C#PμPSPePj. Pj P±C-P»CHCePsCrC,C- PiP°CtC-C"PSC,C-PI C·
PiC-PiPsPjP°PiPSC-C"PjC-C"CF CrC,P°PS PiPsPeCFP°С%CrPIP°PICFCII PiC-CrP»Cl
P·P°PjC-CrPSPsC— C,PμCFP°PiC-C— PjP°PiPSC-C"Pj C,P° PiCFPePiP°PSPμPSPSCII
P·P°CrC,PsCFCrPIP°PSPSCII P†PμPμ.

PμP°CtC-C"PSC,P°Pj, PrP»Cl ClPePeC... PiPμCFPμPrP±P°C#P°С"С,CHCrCl
C,CFPePiP°P»PePN PeCrCFCr P»C-PeCrPIP°PSPSCII P°P±Ps ClPeC- PiCFPePNjP°CFC,CH
P†PμPμ P· PrPePiPsPeCrPePSPsPj C#Pe PiCFPμPiP°CFP°С,P°PjPe, P·PrP°С,PSPePjPe
CrPiCFPeC#PePSCII,Pe PiC-PiPsPjP°PiPSC-C"PjC-CFC (PSP°PiCFPePeP»P°Pr, P·
PrC-CrCFPμC,PePeP°PjPe), PrPsCtC-Р»CHPSPePj PjPsP¶Pμ P±CrC,Pe
PIPePjC-CFCPIP°PSPSCII CFc-PIPSCII PjP°PiPSC-CFC PiPμCFPμPr PiPsC#P°С,PePsPj
C,PμCFP°PiC-C— P†PμPμ C,P° PiPμCFc-PsPrPeC#PSPs PiCFPsC,ClPiPsPj P»C-PeCrPIP°PSPSCII.

P PeP·PePe PIPePSPePePSPμPSPSCII PiPμCFPμP»PsPjC-PI

P†PμPμ, PsCrPsP±P»PePIPs PiCFPe P·P°CrC,PsCFCrPIP°PSPSC- Cr PIPeCrPsPePeC...
PrPsP·P°С... C,P° PiCFPsC,ClPiPsPj C,CFPePiP°P»PsPiPs PiPμCFc-PsPrCr (> 1 CFPsPeCr),
PjPsP¶CrC,CH PrPμC%Ps PiC-PrPIPec%CrPIP°С,Pe CFPeP·PePe PiPμCFPμP»PsPjCr
CrC,PμPiPSP°, P·P°PiBFC™ ClCrC,Cl C,P° C...CFPμP±C,P°, PiPμCFPμPIP°P¶PSPs Cr

PIP°CTC-C"PSCH,C-PI P»C-C,PSCHPsPiPs PIC-PeCr C±Pë P· C-PSC€PëPjPë C,,P°PeC,PsCHP°PjPë
 CHPëP·PëPeCr. P PµP·CrP»CHC,P°C,Pë PsPiP»CΠPrPsPIPëC... PrPsCTP»C-PrPΠPµPSCH
 CTPIC-PrC±P°C,CH, C%Ps P†PµPµ PjPsPΠCrC,CH Pïc-PrPIPëC%CrPIP°C,Pë
 P·P°PiP°P»CHPSPëPNë CHPëP·PëPe PîPµCHPµP»PsPjC-PI PSP° 10-40 %. P"µCΠPePsCH
 PjC-CHPsCH C†Pµ Pïc-PrPIPëC%PµPSPSCΠ PjPsPΠPµ P±CrC,Pë P·CrPjPsPIP»PµPSPs
 C-PSC€PëPjPë C,,P°PeC,PsCHP°PjPë CHPëP·PëPeCr. PµP°CTC-C"PSCH,C-PI, CΠPePëPj
 P·P°PiCHPsPΠCrC" CHPëP·PëPe PsCTC,PµPsPiPsCHPsP·Cr, CTP»C-Pr P»C-PeCrPIP°C,Pë
 PIC-PrPiPsPIC-PrPSPs PrPs PrC-CHC±PëC... PeP»C-PSC-C±PSPëC...
 PePµCHC-PIPSPëC†C,PI, C,P°PePsPΠ C—Pj PîPsC,CHC-P±PSPs PsC,CHPëPjCrPIP°C,Pë
 PSPµPsP±C...C-PrPSCr PeC-P»CHPeC-CTC,CH PIC-C,P°PjC-PSCr D C,P°
 PeP°P»CHC†C-CH.

PµC-PrPiPsCTC,CHPëPNë C€PeC-CHPSPëPNë C±PµCHPIPSPSPëPNë PIPsPIC±P°Pe

P—P°CTC,PsCTCrPIP°PSPSCΠ P†PµPµ PîPsPiB™ CΠP·CrCHC,CH C-P· PrCrPΠPµ
 CHC-PrPeC-CTPSPëPjPë PIPëPîP·PrPeP°PjPë CHPsP·PIPëC,PeCr Pïc-PrPiPsCTC,CHPsPiPs
 C€PeC-CHPSPsPiPs C±PµCHPIPSPSPsPiPs PIPsPIC±P°PeP°. PîPeC%Ps PIPëPSPëPeP°C"
 CrCHP°PΠPµPSPSCΠ, PsCTPsP±P»PëPIPs PSP° PrC-P»CΠPSPeP°C..., C%Ps P·P°P·PSP°CHC,CH
 PIPîP»PëPICr CTsPSCΠC±PSPsPiPs CTPIC-C,P»P°, C- C†Pµ CTCrPîCHPsPiPsPrPΠCrC"C,CHCTCΠ
 P°CHC,CHP°P»Pïc-C"CH, PîP°CTC-C"PSCH,Cr PîPsC,CHC-P±PSPs PSPµPiP°PNëPSPs
 P·PIPµCHPSCrC,PëCTCΠ PrPs P»C-PeP°CHCΠ, CΠPePëPNë CHPsP·PiP»CΠPSPµ
 PSPµPsP±C...C-PrPSC-CTC,CH PîCHPëPîPëPSPµPSPSCΠ P·P°CTC,PsCTCrPIP°PSPSCΠ
 PµP·PsPjPµPîCHP°P·PsP»Cr. P'PëPSPëPePSPµPSPSCΠ Pïc-PrPiPsCTC,CHPsPiPs
 C€PeC-CHPSPsPiPs C±PµCHPIPSPSPsPiPs PIPsPIC±P°PeP° Cr PîP°CTC-C"PSCH,C-PI Pïc-Pr C±P°CT
 PîPsPiPµCHPµPrPSCHPsC— C,PµCHP°Pïc-C— P†PµPµ PjPsPΠPµ Pïc-PrPIPëC%PëC,Pë
 CHPëP·PëPe PNëPsPiPs CHPsP·PIPëC,PeCr PîCHPë P·P°CTC,PsCTCrPIP°PSPSC- C-PSC€PëC...
 P†PµPµ.

PµPsPjP±C-PSP°CTC-CΠ P· C-PSC€PëPjPë P»C-PeP°CHCTCHPePëPjPë P·P°CTPsP±P°PjPë

PkPµ CHPµPePsPjPµPSPCrC"C,CHCTCΠ P·P°CTC,PsCTPsPICrPIP°C,Pë PµP·PsPjPµPîCHP°P·PsP»
 PsPrPSPsC±P°CTPSPs P· P°C,P°P·P°PSP°PIC-CHPsPj (PrPëPI. CHPsP·PrC-P»
 B«P'P·P°C"PjPsPrC-CΠ P· C-PSC€PëPjPë P»C-PeP°CHCTCHPePëPjPë P·P°CTPsP±P°PjPë C,P°
 C-PSC€C- PIPëPrPë PIP·P°C"PjPsPrC-PNëB»). PîPeC%Ps P·P°CTC,PsCTCrPIP°PSPSCΠ
 PePsPjP±C-PSP°CTC-C— P°C,P°P·P°PSP°PIC-CHCr P· P†PµPµ CrPSPëPePSCrC,Pë
 PSPµPjPsPΠP»PëPIPs, CHPµPePsPjPµPSPCrC"C,CHCTCΠ CHPµC,PµP»CHPSPs
 PePsPSC,CHPsP»CHPIP°C,Pë PeP»C-PSC-C±PSPëPNë CTc,P°PS PîP°CTC-C"PSCH,C-PI C,P°
 Pïc-PrPIPëC%PëC,Pë PrPsP·Cr P°C,P°P·P°PSP°PIC-CHCr PrPs 400 PjPi Cr PîPsC"PrPSP°PSPSC-
 P·C- 100 PjPi CHPëC,PsPSP°PIC-CHCr; PrPsP·Cr PµP·PsPjPµPîCHP°P·PsP»Cr 20 PjPi
 PîPµCHPµPIPëC%CrPIP°C,Pë PSPµ CTP»C-Pr.

P·P·PsPjPµPîCHP°P·PsP» B™ C-PSPiC-P±C-C,PsCH CYP2C19. PkP° PîPsC±P°C,PeCr C,P°
 PSP°PîCHPëPeC-PSC†C- C,PµCHP°Pïc-C— PµP·PsPjPµPîCHP°P·PsP»PsPj CTP»C-Pr
 PICHP°C...PsPICrPIP°C,Pë PjPsPΠP»PëPIC-CTC,CH PIP·P°C"PjPsPrC-C— P·
 PîCHPµPîP°CHP°C,P°PjPë, C%Ps PjPµC,P°P±PsP»C-P·CrCHC,CHCTCΠ CYP2C19.
 P'C-PrP·PSP°C±PµPSPs PIP·P°C"PjPsPrC-CH PjC-PΠ PeP»PsPïc-PrPsPiCHPµP»PµPj C,P°
 PsPjPµPîCHP°P·PsP»PsPj (PrPëPI. CHPsP·PrC-P» B«P'P·P°C"PjPsPrC-CΠ P·B C-PSC€PëPjPë
 P»C-PeP°CHCTCHPePëPjPë P·P°CTPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C"PjPsPrC-PNëB»).
 PµP»C-PSC-C±PSP° P·PSP°C±CrC%C-CTC,CH C†C-C" C— PIP·P°C"PjPsPrC-C— C,PsC±PSPs PSPµ
 PIPëP·PSP°C±PµPSP°. PîPe P·P°PîPsP±C-PΠPSPëPNë P·P°C...C-Pr PSPµ
 CHPµPePsPjPµPSPCrC"C,CHCTCΠ PsPrPSPsC±P°CTPSPs P·P°CTC,PsCTPsPICrPIP°C,Pë

РμР·РsРjРμРiСђР°Р·РsР» С,Р° РeР»РsРiС-РrРsРiСђРμР»Сђ.

РјСІР¶РeС- СeРeС-СђРSС- РiРsР±С-СђРSС- СђРμР°РeС†С-С— (SCARs)

Рj Р·РiБђ™ СІР·РeСr Р· Р»С-РeСrРiР°РSPSCІРj РμР·РsРjРμРiСђР°Р·РsР»РsРj
РiРsРiС-РrРsРjР»СІР»РsСІСІ РiСђРs РrСrР¶Рμ СђС-РrРeС-СІРSС- РiРeРiР°РrРeРe
С,СІР¶РeРeС... СeРeС-СђРSPSРeС... РiРsР±С-СђРSPSРeС... СђРμР°РeС†С-Р№ (SCARs),
РiРeР»СђС±РSPs Р· РjСrР»СђС,РeС,,РsСђРjРSPsСђ РμСђРeС,РμРjРsСђ, СІРeРSPrСђРsРjРsРj
РђС,С-РiРμPSCІР°Бђ“ Р”Р¶РsPSCІРsРSP°, С,РsРeСІРeС±РSPeРj РμРiС-РrРμСђРjР°Р»СђРSPeРj
РSPμРeСђРsР»С-Р·РsРj С,Р° СђРμР°РeС†С-С”Сђ РSP° Р»С-РeР°СђСІСђРeРeР№ Р·Р°СІС-Р± Р·
РμРsР·РeРSPsС,,С-Р»С-С”Сђ С,Р° СІРeСІС,РμРjРSPeРjРe СІРeРjРiС,РsРjР°РjРe (DRESS),
СІРeС- РjРsР¶СrС,Сђ РSPμСІС,Рe Р·Р°РiСђРsР·Сr Р¶РeС,С,Сђ.

РμР°С†С-С”РSС,Рe Р· РjСrР»СђС,РeС,,РsСђРjРSPsСђ РμСђРeС,РμРjРsСђ/СІРeРSPrСђРsРjРsРj
РђС,С-РiРμPSCІР°Бђ“Р”Р¶РsPSCІРsРSP°/С,РsРeСІРeС±РSPeРj РμРiС-РrРμСђРjР°Р»СђРSPeРj
РSPμРeСђРsР»С-Р·РsРj/DRESS РjР°СђС,Сђ Р±СrС,Рe РiРsС-РSС,,РsСђРjРsРiР°РPSC- РiСђРs
РjРsР¶Р»РeРiС- РsР·РSP°РeРe С,Р° СІРeРjРiС,РsРjРe С,СІР¶РeРeС... СeРeС-СђРSPSРeС...
РiРsР±С-СђРSPSРeС... СђРμР°РeС†С-Р№ С,Р° РiРsРiРeРSPSC- РSPμРiР°РP№РSPs
Р·РiРμСђРSСrС,РeСІСІ Р·Р° РeРsPSCІСrР»СђС,Р°С†С-С”Сђ РrРs СІРiРsРiРs Р»С-РeР°СђСІСІ
Сr СђР°Р·С- РiРsСІРiРe Р±СrРrСђ-СІРeРeС... С...Р°СђР°РeС,РμСђРSPSРeС... РsР·РSP°Рe Р°Р±Рs
СІРeРjРiС,РsРjС-Рi.

Рj СђР°Р·С- РiРsСІРiРe РsР·РSP°Рe С,Р° СІРeРjРiС,РsРjС-Рi С,СІР¶РeРeС... СeРeС-СђРSPSРeС...
СђРμР°РeС†С-Р№ РiРsС,СђС-Р±РSPs РSPμРiР°РP№РSPs РiСђРeРiРeРSPSРeС,Рe РiСђРeР№РsРj
РμР·РsРjРμРiСђР°Р·РsР»Сr С,Р° РSP°РrР°С,Рe РrРsРrР°С,РeРsРiСr РjРμРrРeС±РSСr
РrРsРiРsРjРsРiСr/Р·Р°Р±РμРiРμС±РeС,Рe СђРμС,РμР»СђРSPeР№ РeРsРSС,СђРsР»Сђ
СІС,Р°РSСr РiР°С†С-С”РSС,Р°.

РќРμ РiРsС,СђС-Р±РSPs РiРsРiС,РsСђРSPs РiСђРeР·РSP°С±Р°С,Рe Р»С-РeР°СђСІСђРeРeР№
Р·Р°СІС-Р± РiР°С†С-С”РSС,Р°Рj Р· РjСrР»СђС,РeС,,РsСђРjРSPsСђ
РμСђРeС,РμРjРsСђ/СІРeРSPrСђРsРjРsРj
РђС,С-РiРμPSCІР°Бђ“Р”Р¶РsPSCІРsРSP°/С,РsРeСІРeС±РSPeРj РμРiС-РrРμСђРjР°Р»СђРSPeРj
РSPμРeСђРsР»С-Р·РsРj/DRESS.

Р’РiР»РeРi РSP° СђРμР·СзР»СђС,Р°С,Рe Р»Р°Р±РsСђР°С,РsСђРSPSРeС... Р°РSP°Р»С-Р·С-Рi

РђРμСђРμР· РiС-РrРiРeС%РμРSPSCІ СђС-РiРSCІ СgА РjРsР¶Р»РeРiРeР№ РiРiР»РeРi РSP°
СђРμР·СrР»СђС,Р°С,Рe Р»Р°Р±РsСђР°С,РsСђРSPSРeС... РrРsСІР»С-РrР¶РμPSCђ Р·
РiРeСІРiР»РμРSPSCІ РSPμР№СђРsРμSPrРsРeСђРeРSPSРeС... РiСrС...Р»РeРs. Р©РsР±
С†СђРsРiРs СrРSPeРePSCrС,Рe, СІР»С-Рr С,РeРjС±Р°СІРsРiРs РiСђРeРiРeРSPSРeС,Рe
Р·Р°СІС,РsСІСrРiР°РPSPSCІ РμР·РsРjРμРiСђР°Р·РsР»Сr С%РsРSP°Р№РjРμPSCeРμ Р·Р°
РiБђ™ СІС,Сђ РrРSС-Рi РrРs РiРeРjС-СђСђРiР°РPSPSCІ СђС-РiРSCІ СgА.

РiРeС%Рs СђС-РiРμPSCђ СgА С,Р° РiР°СІС,СђРeРSСr РSPμ РSPsСђРjР°Р»С-Р·СrРiР°РiСІСІ
РiС-СІР»СІ РiРsС±Р°С,РeРsРiРsРiРs РiРeРjС-СђСђРiР°РPSPSCІ, РiРsС,СђС-Р±РSPs
РiСђРsРiРμСІС,Рe РiРsРiС,РsСђРSС- РiРeРjС-СђСђРiР°РPSPSCІ С±РμСђРμР· 14 РrРSС-Рi
РiС-СІР»СІ РiС-РrРjС-РSPe Р»С-РeСrРiР°РPSPSCІ Р†РμРμ.

РђРrРeРs С,,Р»Р°РeРsРs РjС-СІС,РeС,Сђ РjРμPSCeРμ 1 РjРjРsР»Сђ РSP°С,СђС-Сђ (23 РjРi)
РSP° 40 РjРi, С,РsР±С,Рs РiСђР°РeС,РeС±РSPs РiС-Р»СђРSPeР№ РiС-Рr РSP°С,СђС-Сђ.

$P_{P\mu}P_{Cr}P \gg CH_3C, P^\circ C, P\ddot{e} PrPsClP \gg C-PrP \parallel P_{\mu}PSC H_3 C_7P^\circ C \uparrow P_{\mu}PjC-C \ddagger PSPsC - ClCrPjC-C\epsilon C-$
 $PsPjP_{\mu}PiC_7P^\circ P \cdot PsP \gg Cr PSP^\circ C, PIP^\circ C_7P\ddot{e}PSP^\circ C \dots PIPeP^\circ P \cdot CrC_7C, CH_3 PSP^\circ$
 $PIC-PrClCrC, PSC-ClC, CH_3 PIPiP \gg P\ddot{e}PICr PsPjP_{\mu}PiC_7P^\circ P \cdot PsP \gg Cr PSP^\circ$
 $C, P_{\mu}C_7C, P\ddot{e}P \gg CH_3PSC-ClC, CH_3 Cr C_7P^\circ P \cdot C- PiP_{\mu}C_7PsC_7P^\circ P \gg CH_3PSPsPiPs$
 $P \cdot P^\circ ClC, PsClCrPIP^\circ PSPSC \parallel P \gg C-PeP^\circ C_7ClCH_3PePsPiPs P \cdot P^\circ ClPs \pm Cr.$

P—PrP°C,PSC—CÍC,CH PIPiP»PëPIP°C,Pë PSP° C€PIPëPrPeC—CÍC,CH CȚPμP°PeC†C—C— PİCȚPë PePμCȚCžPIP°PSPSC— P°PIC,PsC,CȚP°PSCÍPİPsCȚC,PsPj P°P±Ps C—PSC€PëPjPë PjPμC...P°PSC—P·PjP°PjPë.

*P·P·PsPjPμPİCȚP°P·PsP» PjP°C” PSPμP·PSP°C†PSPëPNë PIPiP»PëPI PSP° P·PrP°C,PSC—CÍC,CH PePμCȚCÍPIP°C,Pë C,CȚP°PSCÍPİPsCȚC,PSPëPjPë P·P°CÍPsP±P°PjPë P°P±Ps PİCȚP°C†CȚPIP°C,Pë P· C—PSC€PëPjPë PjPμC...P°PSC—P·PjP°PjPë.
PμPsPIC—PrPsPjP»CİC”C,CHCÍCİ PİCȚPs C,P°PeC— PİPsP±C—C†PSC— CȚPμP°PeC†C—C— CİPe P·P°PİP°PjPsCȚPsC†PμPSPSCİ (PSPμC†P°CÍC,Ps) C— PSPμC†C—C,PeC—CÍC,CH P·PsCȚCÍ (PSPμC†P°CÍC,Ps) (PrPëPI. CȚPsP·PrC—P» B«PμPsP±C—C†PSC— CȚPμP°PeC†C—C—B»). PİPeC%Ps C,P°PeC— CȚPsP·P»P°PrPë CÍPİPsCÍC,PμCȚC—PİP°CȚC,CHCÍCİ, PİP°C†C—C”PSC,P°Pj PSPμ CÍP»C—Pr PePμCȚCÍPIP°C,Pë C,CȚP°PSCÍPİPsCȚC,PSPëPjPë P·P°CÍPsP±P°PjPë C,P° PİCȚP°C†CȚPIP°C,Pë P· C—PSC€PëPjPë PjPμC...P°PSC—P·PjP°PjPë.*

PŸPİPsCÍC—P± P·P°CÍC,PsCÍCžPIP°PSPSCİ C,P° PrPsP·Pë.

P”PsP·CÍPIP°PSPSCİ

P”PsCȚPsCÍP»C—

PȚPSC,PëCÍPμPeCȚPμC,PsCȚPSP° C,PμCȚP°PİC—Cİ Cž CȚP°P·C— PSPμPjPsP¶P»PëPIPSCÍC,C— PİPμCȚPsCȚP°P»CHPSPsPiPs P·P°CÍC,PsCÍCžPIP°PSPSCİ

PμP°C†C—C”PSC,P°Pj, CİPeC— PSPμ PjPsP¶CÍC,CH PİCȚPëPNëPjP°C,Pë P»C—PeP°CȚCÍCHPePëPNë P·P°CÍC—P± PİPμCȚPsCȚP°P»CHPSPs, PjPsP¶PSP° PİPİPsPrPëC,Pë PİCȚPμPİP°CȚP°C, PİP°CȚPμPSC,PμCȚP°P»CHPSPs CÍ PrPsP·C— 20-40 PjPi 1 CȚP°P· PSP° PrPsP±CÍ. P”PsP·P° PrP»Cİ PİP°C†C—C”PSC,C—PI C—P· CȚPμC,,P»CȚPeCÍPSPëPj PμP·PsC,,P°PİC—C,PsPj CÍC,P°PSPsPİPëC,CH 40 PjPi 1 CȚP°P· PSP° PrPsP±CÍ. P”PsP·P° PrP»Cİ PİP°C†C—C”PSC,C—PI, CİPeC— PsPrPμCȚP¶CÍCȚC,CH CÍPëPjPİC,PsPjP°C,PëC†PSPμ P»C—PeCÍPIP°PSPSCİ PİCȚPë CȚPμC,,P»CȚPeCÍPSC—PNë C...PİPsCȚPsP±C—, CÍC,P°PSPsPİPëC,CH 20 PjPi 1 CȚP°P· PSP° PrPsP±CÍ.

PμCȚPë P»C—PeCÍPIP°PSPSC— PİPëCȚP°P·PsPe C€P»CÍPSPeP°, P·CÍPjPsPİP»PμPSPëC... P·P°CÍC,PsCÍCÍPIP°PSPSCİPj PkPμP—P—, P·PİPëC†P°PNëPSP° PrPsP·P° CÍC,P°PSPsPİPëC,CH 20 PjPi 1 CȚP°P· PSP° PrPsP±CÍ. P”P»Cİ P·P°PİPsP±C—PİP°PSPSCİ PİPëCȚP°P·PeP°Pj C€P»CÍPSPeP° C,P° PrPİP°PSP°PrC†CİC,PëPİP°P»PsC— PePëC€PePë, P·CÍPjPsPİP»PμPSPëPj C,PμCȚP°PİC—C”CȚ PkPμP—P—, PİP°C†C—C”PSC,P°Pj PİCȚCÍPİPë CȚPëP·PëPeCÍ PİCȚPëP·PSP°C†P°CȚC,CH P»C—PeP°CȚCÍCHPePëPNë P·P°CÍC—P± CÍ PrPsP·C— 20 PjPi 1 CȚP°P· PSP° PrPsP±CÍ.

P—P°P·PİPëC†P°PNë P·P°CÍC,PsCÍCÍPIP°PSPSCİ P»C—PeP°CȚCÍCHPePsPiPs P·P°CÍPsP±CÍ PİPSCÍC,CȚC—C€PSCȚPsPİPμPSPSPs BȚ” PePsCȚPsC,PePsC,CȚPëPİP°P»Pμ, PİP°C†C—C”PSC,C—PI CÍP»C—Pr PİPμCȚPμPİPsPrPëC,Pë PSP° PİPμCȚPsCȚP°P»CHPSPμ P·P°CÍC,PsCÍCÍPIP°PSPSCİ P»C—PeP°CȚCÍCHPePsPiPs P·P°CÍPsP±CÍ CİPePsPjPsPİP° C€PIPëPrC€Pμ.

PμCȚPsC,,C—P»P°PeC,PëPeP° PİPsPIC,PsCȚPSPsC— PeCȚPsPİPsC,PμC†C— Cž PİP°C†C—C”PSC,C—PI PİC—CÍP»Cİ PμPSPPrPsCÍPePsPİC—C†PSPsPiPs P»C—PeCžPIP°PSPSCİ PİPsCÍC,CȚPsC— PeCȚPsPİPsC,PμC†C— PİPSP°CÍP»C—PrPsPe PİPëCȚP°P·PePë C€P»CžPSPeP° P°P±Ps

PrPIP°PSP°PrC†CЦC,PePiP°P»PsC— PePëC€PePë

PµC-ГP»CЦ C,PµCḡP°PiPµPIC,PëC‡PSPsC— PµPSPPrPsCГPePsPiC-C— PiPsCГC,CḡPsC—
PeCḡPsPIPsC,PµC‡C- PIPëCḡP°P·PsPe C€P»CГPSPeP° P°P±Ps PrPIP°PSP°PrC†CЦC,PePiP°P»PsC—
PePëC€PePë PIPiPsPrCЦC,CH 80 PjPi P»C-PeP°CḡCГCHPePsPiPs P·P°CГPsP±CГ CГ
PIPëPiP»CЦPrC- P±PsP»CḡCГPSPsC— C-PSC,,CГP·C-C— C,CḡPëPIP°P»C-ГC,Cḡ 30
C...PIPëP»PëPS, PiC-ГP»CЦ C‡PsPiPs PiCḡPsPrPsPIP¶CГCḡC,CH PIPiPµPrPµPSPSCЦ
PiCḡPµPiP°CḡP°C,CГ CГ PIPëPiP»CЦPrC- C,CḡPëPIP°P»PsC—
PIPSCГC,CḡC-C€PSCḡPsPIPµPSPSPsC— C-PSC,,CГP·C-C— P·C- C€PIPëPrPeC-ГC,Cḡ
B B B B B B B B 8 PjPi/PiPsPrPëPSCГ PIPiCḡPsPrPsPIP¶ 3 PrPSC-PI (72 PiPsPrPëPS).

PµC-ГP»CЦ PiP°CḡPµPSC,PµCḡP°P»CHPSPsPiPs P»C-PeCГPIP°PSPSCЦ C,PµCḡP°PiC-Cḡ
CГP»C-Pr PiCḡPsPrPsPIP¶PëC,Pë P·P° PrPsPiPsPjPsPiPsCḡ PiPµCḡPsCḡP°P»CHPSPëC...
P·P°CГPsP±C-PI, C%Ps PiCḡPëPiPSC-C‡CГCḡC,CH PePëCГP»PsC,PSCГ CГPµPeCḡPµC‡C-Cḡ.

PŸPiPsCГC-P± P·P°CГC,PsCГCГPIP°PSPSCЦ

P†PSCГC,CḡCГPeC‡C-C— C-P· PiCḡPëPiPsC,CГPIP°PSPSCЦ PIC-PrPSPsPIP»PµPSPsPiPs
CḡPsP·C‡PëPSCГ PSP°PIPµPrPµPSC- CГ PrP°PSPsPjCГ CḡPsP·PrC-P»C- PSPëP¶C‡Pµ
(B«P†PSCГC,CḡCГPeC‡C-C— C-P· P·P°CГC,PsCГCГPIP°PSPSCЦ, PIPëPePsCḡPëCГC,P°PSPSCЦ
C,P° CГC,PëP»C-P·P°C‡C-C— (CГ PIC-PrPiPsPIC-PrPSPëC... PIPëPiP°PrPeP°C...)B»).

P†PSBḡ™C”PeC‡C-C—

P”PsP·P° 40 PjPi

5 PjP» PIC-PrPSPsPIP»PµPSPsPiPs CḡPsP·C‡PëPSCГ (8 PjPi/PjP») PIPiPsPrCЦC,CH CГ
PIPëPiP»CЦPrC- PIPSCГC,CḡC-C€PSCḡPsPIPµPSPSPsC— C-PSBḡ™C”PeC‡C-C—
C,CḡPëPIP°P»C-ГC,Cḡ C%PsPSP°PNëPjPµPSC€Pµ 3 C...PIPëP»PëPSPë.

P”PsP·P° 20 PjPi

2,5 PjP» P°P±Ps PiPsP»PsPIPëPSCГ PIC-PrPSPsPIP»PµPSPsPiPs CḡPsP·C‡PëPSCГ (8 PjPi/PjP») PIPiPsPrCЦC,CH CГ PIPëPiP»CЦPrC- PIPSCГC,CḡC-C€PSCḡPsPIPµPSPSPsC—
C-PSBḡ™C”PeC‡C-C— C,CḡPëPIP°P»C-ГC,Cḡ C%PsPSP°PNëPjPµPSC€Pµ 3 C...PIPëP»PëPSPë.
PќPµPIPëPePsCḡPëCГC,P°PSPëPNë CḡPsP·C‡PëPS CГC,PëP»C-P·CГCḡC,CH.

P†PSC,,CГP·C-C—

P”PsP·P° 40 PjPi

P’C-PrPSPsPIP»PµPSPëPNë CḡPsP·C‡PëPS PIPiPsPrCЦC,CH CГ PIPëPiP»CЦPrC-
PIPSCГC,CḡC-C€PSCḡPsPIPµPSPSPsC— C-PSC,,CГP·C-C— C,CḡPëPIP°P»C-ГC,Cḡ 10-30
C...PIPëP»PëPS.

P”PsP·P° 20 PjPi

PµPsP»PsPIPëPSCГ PIC-PrPSPsPIP»PµPSPsPiPs CḡPsP·C‡PëPSCГ PIPiPsPrCЦC,CH CГ
PIPëPiP»CЦPrC- PIPSCГC,CḡC-C€PSCḡPsPIPµPSPSPsC— C-PSC,,CГP·C-C—
C,CḡPëPIP°P»C-ГC,Cḡ 10-30 C...PIPëP»PëPS. PќPµPIPëPePsCḡPëCГC,P°PSPëPNë CḡPsP·C‡PëPS
CГC,PëP»C-P·CГCḡC,CH.

P’PsP»CḡCГPSP° PrPsP·P° 80 PjPi

P'C-PrPSPsPIP»PµPSPëPNë CḡPsP·C‡PëPS PIPsPrCḡC,CH Cr PIPëPiP»CḡPrC-
P±PµP·PiPµCḡPµCḡPIPSPsC— PIPSCrC,CḡC-CëPSCḡPsPIPµPSPSPsC— C-PSC,,CrP·C-C—
PiCḡPsC,CḡPiPsPj 30 C...PIPëP»PëPS.

P"PsP·P° 8 PjPi/PiPsPrPëPSCr

P'C-PrPSPsPIP»PµPSPëPNë CḡPsP·C‡PëPS PIPsPrCḡC,CH Cr PIPëPiP»CḡPrC-
C,CḡPëPIP°P»PsC— PIPSCrC,CḡC-CëPSCḡPsPIPµPSPSPsC— C-PSC,,CrP·C-C—
PiCḡPsC,CḡPiPsPjB 71,5 PiPsPrPëPSPë (CḡPsP·CḡP°C...PsPIP°PSP° CëPIPëPrPeC-CrC,CH
C-PSC,,CrP·C-C— Bḡ" 8 PjPi/PiPsPrPëPSCr, C,PµCḡPjC-PS PiCḡPëPrP°C,PSPsCrC,C-
PIC-PrPSPsPIP»PµPSPsPiPs CḡPsP·C‡PëPSCr PIPeP°P·P°PSPëPNë Cr PiC-PrCḡPsP·PrC-P»C-
B«PḡPiPsCrC-P± P·P°CrC,PSCrCrPIP°PSPSCḡB»).

PµP°C†C-C"PSC,Pë PsCrPsP±P»PëPIPëC... PiCḡCḡPī

PµPsCḡCḡCëPµPSPSCḡ C,,CḡPSPeC†C-C— PSPëCḡPsPe

P"P»Cḡ PiP°C†C-C"PSC,C-PI C-P· PiPsCḡCrCëPµPSPSCḡPjPë C,,CrPSPeC†C-C— PSPëCḡPsPe
PePsCḡPµPeC†C-Cḡ PrPsP·Pë PSPµ PiPsC,CḡC-P±PSP°. PhCrPeC-P»CHPePë PrPsCrPIC-Pr
P·P°CrC,PSCrCrPIP°PSPSCḡ PiCḡPµPiP°CḡP°C,Cr PiP°C†C-C"PSC,P°Pj C-P· C,CḡPḡPePsCḡ
PSPëCḡPePsPIPsCḡ PSPµPrPsCrC,P°C,PSC-CrC,Cḡ PsP±PjPµPḡPµPSPëPNë, C,P°PePëC...
PiP°C†C-C"PSC,C-PI CrP»C-Pr P»C-PeCrPIP°C,Pë P· PsP±PµCḡPµPḡPSC-CrC,Cḡ (PrPëPI.
CḡPsP·PrC-P» B«PḡP°CḡPjP°PePsPeC-PSPµC,PëPeP°B»).

PµPsCḡCḡCëPµPSPSCḡ C,,CḡPSPeC†C-C— PiPµC†C-PSPePë

P"P·P Pḡ: PiP°C†C-C"PSC,P°Pj C-P· P»PµPiPePëPjPë P°P±Ps PiPsPjC-CḡPSPëPjPë
PiPsCḡCrCëPµPSPSCḡPjPë C,,CrPSPeC†C-C— PiPµC†C-PSPePë PePsCḡPµPeC†C-Cḡ PrPsP·Pë
PSPµ PiPsC,CḡC-P±PSP°. PµP°C†C-C"PSC,P°Pj C-P· C,CḡPḡPePëPjPë PiPsCḡCrCëPµPSPSCḡPjPë
C,,CrPSPeC†C-C— PiPµC†C-PSPePë PSPµ CrP»C-Pr PiPµCḡPµPIPëC%CrPIP°C,Pë
PjP°PeCrPëPjP°P»CHPSCr PrPsP·Cr PiCḡPµPiP°CḡP°C,Cr P,,CrPsPj Bḡ" 20 PjPi (PrPëPI.
CḡPsP·PrC-P» B«PḡP°CḡPjP°PePsPeC-PSPµC,PëPeP°B»).

P'PëCḡP°P·PePë, C%Ps PeCḡPsPIPsC,PSC†P°C,CH: PiP°C†C-C"PSC,P°Pj C-P· P»PµPiPePëPjPë
P°P±Ps PiPsPjC-CḡPSPëPjPë PiPsCḡCrCëPµPSPSCḡPjPë C,,CrPSPeC†C-C— PiPµC†C-PSPePë
PePsCḡPµPeC†C-Cḡ PrPsP·Pë PSPµ PiPsC,CḡC-P±PSP°; PiP°C†C-C"PSC,P°Pj C-P·
C,CḡPḡPePëPjPë PiPsCḡCrCëPµPSPSCḡPjPë C,,CrPSPeC†C-C— PiPµC†C-PSPePë PiC-CrP»Cḡ
PIPIPµPrPµPSPSCḡ PiPsC†P°C,PePsPIPsC— P±PsP»CḡCrPSPsC— PrPsP·Pë PiCḡPµPiP°CḡP°C,Cr
P,,CrPsPj PrP»Cḡ C-PSC,,CrP·C-PNë 80 PjPi PiPsPrP°P»CHCëPµ PIPµPrPµPSPSCḡ
PiCḡPµPiP°CḡP°C,Cr Cr PIPëPiP»CḡPrC- C,CḡPëPIP°P»PsC—
PIPSCrC,CḡC-CëPSCḡPsPIPµPSPSPsC— C-PSC,,CrP·C-C— P·C- CëPIPëPrPeC-CrC,Cḡ 4
PjPi/PiPsPrPëPSCr PiCḡPsC,CḡPiPsPj 71,5 PiPsPrPëPSPë PjPsPḡPµ P±CrC,Pë PrPsCrC,P°C,PSC-Pj
(PrPëPI. CḡPsP·PrC-P» B«PḡP°CḡPjP°PePsPeC-PSPµC,PëPeP°B»).

PµP°C†C-C"PSC,Pë P»C-C,PSCHPsPiPs PIC-PeCḡ

PḡPsCḡPµPeC†C-Cḡ PrPsP·Pë PSPµ PiPsC,CḡC-P±PSP°.

P"C-C,Pë

P"PsP·CrPIP°PSPSCḡ

P"C-C,Pë PIC-PePsPj 1-18 CḡPsPeC-PI

1,25 PjP» PIC-PrPSPsPIP»PμPSPsPiPs CḡPsP·C‡PēPSCř (8 PjPi/PjP») PIPiPsPrCḡC,CH Cř
PIPēPiP»CḡPrC- PIPSCřC,CḡC-CēPSCḡPsPIPμPSPSPsC— C-PSḡḡ™ C”PeC†C-C—
C,CḡPēPIP°P»C-CřC,Cḡ C%PsPSP°PNēPjPμPSCēPμ 3 C...PIPēP»PēPSPē.
PḡPμPIPēPePsCḡPēCřC,P°PSPēPNē CḡPsP·C‡PēPS CřC,PēP»C-P·CřCḡC,CH.

P†PSC,,CřP·C-C—

P”PsP·P° 40 PjPi

P’C-PrPSPsPIP»PμPSPēPNē CḡPsP·C‡PēPS PIPiPsPrCḡC,CH Cř PIPēPiP»CḡPrC-
PIPSCřC,CḡC-CēPSCḡPsPIPμPSPSPsC— C-PSC,,CřP·C-C— C,CḡPēPIP°P»C-CřC,Cḡ 10-30
C...PIPēP»PēPS.

P”PsP·P° 20 PjPi

PμPsP»PsPIPēPSCř PIC-PrPSPsPIP»PμPSPsPiPs CḡPsP·C‡PēPSCř PIPiPsPrCḡC,CH Cř
PIPēPiP»CḡPrC- PIPSCřC,CḡC-CēPSCḡPsPIPμPSPSPsC— C-PSC,,CřP·C-C—
C,CḡPēPIP°P»C-CřC,Cḡ 10-30 C...PIPēP»PēPS. PḡPμPIPēPePsCḡPēCřC,P°PSPēPNē CḡPsP·C‡PēPS
CřC,PēP»C-P·CřCḡC,CH.

P”PsP·P° 10 PjPi

PḡPIPμCḡC,CH PIC-PrPSPsPIP»PμPSPsPiPsB CḡPsP·C‡PēPSCřB PIPiPsPrCḡC,CHB CřB
PIPēPiP»CḡPrC-B PIPSCřC,CḡC-CēPSCḡPsPIPμPSPSPsC—B C-PSC,,CřP·C-C—B
C,CḡPēPIP°P»C-CřC,Cḡ 10-30 C...PIPēP»PēPS. PḡPμPIPēPePsCḡPēCřC,P°PSPēPNē CḡPsP·C‡PēPS
CřC,PēP»C-P·CřCḡC,CH.

*P†PSCřC,CḡCžPeC†C-C— P·C- P·P°CřC,PsCřCžPIP°PSPSCḡ, PIPēPePsCḡPēCřC,P°PSPSCḡ C,P°
CžC,PēP»C-P·P°C†C-C— (Cž PIC-PrPiPsPIC-PrPSPēC... PIPēPiP°PrPeP°C...)*

PμPμCḡPμPr P·P°CřC,PsCřCřPIP°PSPSCḡPj PIC-PrPSPsPIP»PμPSPēPNē CḡPsP·C‡PēPS CřP»C-Pr
PIC-P·CřP°P»CHPSPs PiPμCḡPμPIC-CḡPēC,Pē PSP° PSP°CḡPIPSC-CřC,CH
PjPμC...P°PSC-C‡PSPēC... C‡P°CřC,PsPe C,P° P·PjC-PSCř PePsP»CHPsCḡCř. PŸP»C-Pr
PIPēPePsCḡPēCřC,PsPICřPIP°C,Pē P»PēCēPμ PiCḡPsP·PsCḡPēPNē CḡPsP·C‡PēPS. P PsP·C‡PēPS
PiCḡPēP·PSP°C‡PμPSPēPNē P»PēCēPμ PrP»Cḡ PsPrPSPsCḡP°P·PsPIPsPiPs
P·P°CřC,PsCřCřPIP°PSPSCḡ.

PİPeC%Ps PIPμCřCH PIC-PrPSPsPIP»PμPSPēPNē PIPjC-CřC, C,,P»P°PePsPSP° PSPμ
PiPsC,CḡC-P±PμPS, PSPμPIPēPePsCḡPēCřC,P°PSPēPNē CḡPsP·C‡PēPS CřP»C-Pr
CřC,PēP»C-P·CřPIP°C,Pē PIC-PrPiPsPIC-PrPSPs PrPs PjC-CřC†PμPIPēC... PIPēPjPsPi.

P PsP·C‡PēPS PrP»Cḡ C-PSḡḡ™ C”PeC†C-PNē PiPs 40 PjPi

P”PsC,CřCḡC,CH CḡPsP·C‡PēPS PrP»Cḡ C-PSḡḡ™ C”PeC†C-C— (8 PjPi/PjP»), PrPsPrP°CḡC‡Pē 5
PjP» 0,9 % PSP°C,CḡC-Cḡ C...P»PsCḡPēPrCř PrP»Cḡ PIPSCřC,CḡC-CēPSCḡPsPIPμPSPSPsPiPs
P·P°CřC,PsCřCřPIP°PSPSCḡ PrPs C,,P»P°PePsPSP° PμP·PsPjPμPiCḡP°P·PsP»Cř 40 PjPi.

P’C-PrPSPsPIP»PμPSPēPNē CḡPsP·C‡PēPS PrP»Cḡ C-PSḡḡ™ C”PeC†C-PNē PiCḡPsP·PsCḡPēPNē C,P°
P±PμP·P±P°CḡPIPSPēPNē P°P±Ps C,CḡPsC...Pē P¶PsPIC,CřPIP°C,PsPiPs PePsP»CHPsCḡCř.

P PsP·C‡PēPS PrP»Cḡ C-PSC,,CřP·C-PNē PiPs 40 PjPi

P”PsC,CřCḡC,CH CḡPsP·C‡PēPS PrP»Cḡ C-PSC,,CřP·C-PNē, CḡPsP·C‡PēPSCḡCḡC‡Pē PIPjC-CřC,

PsPrPSPsPiPs C,,P»P°PePsPSP° PμP·PsPjPμPīCḡP°P·PsP»Cř 40 PjPi Cř 100 PjP» 0,9 %
C...P»PsCḡPēPrCř PSP°C,ḡC-Cḡ PrP»Cḡ PIPSCřC,ḡC-C€PSCḡPsPIPμPSPSPsPiPs
P·P°CřC,PsCřCřPIP°PSPSCḡ.

P PsP·C‡PēPS PrP»Cḡ C-PSC,,CřP·C-PNē PīPs 80 PjPi

P"PsC,CřCḡC,ḡC ḡPSP·C‡PēPS PrP»Cḡ C-PSC,,CřP·C-PNē, ḡPSP·C‡PēPSCḡCḡC‡Pē PIPjC-CřC,
PrPIPsC... C,,P»P°PePsPSC-PI PμP·PsPjPμPīCḡP°P·PsP»Cř PīPs 40 PjPi PrPs 100 PjP» 0,9 %
C...P»PsCḡPēPrCř PSP°C,ḡC-Cḡ PrP»Cḡ PIPSCřC,ḡC-C€PSCḡPsPIPμPSPSPsPiPs
P·P°CřC,PsCřCřPIP°PSPSCḡ.

P'C-PrPSPsPIP»PμPSPēPNē ḡPSP·C‡PēPS PrP»Cḡ C-PSC,,CřP·C-PNē PīCḡPSP·PsCḡPēPNē C,P°
P±PμP·P±P°CḡPIPSPēPNē P°P±Ps C,ḡPSC...Pē P¶PsPIC,CřPIP°C,PsPiPs PePsP»ḡPSPCḡCř.

PŷPμCḡPjC-PS P·P±PμCḡC-PiP°PSPSCḡ PīC-CřP»Cḡ PīCḡPēPiPsC,CžPIP°PSPSCḡ
CḡPSP·C‡PēPSCž. P'CřP»P° PīCḡPSPPrPμPjPsPSCřC,ḡPSPPIP°PSP° C...C-PjC-C‡PSP° C,P°
C,,C-P·PēC‡PSP° CřC,P°P±C-P»ḡPSPSC-CřC,ḡC PI CřPjPsPIP°C... P·P°CřC,PsCřCřPIP°PSPSCḡ
PIPīCḡPSPPrPsPIP¶ 12 PiPsPrPēPS PīCḡPē PeC-PjPSP°C,PSC-PNē C,PμPjPiPμCḡP°C,CřCḡC- PSPμ
PIPēC%Pμ 30 B°Pŷ. P— C,PsC‡PePē P·PsCḡCř PjC-PeCḡPSP±C-PsP»PsPiC-C— PīCḡPμPīP°CḡP°C,
CřP»C-Pr P·P°CřC,PsCřCřPIP°C,Pē PSPμPiP°PNēPSPs.

P"C-C,Pē.

P—P°CřC,PsCřPsPICřCḡC,ḡC PrC-C,CḡPj PIC-PePsPj PIC-Pr 1 ḡPSPeCř CḡPe P·P°CřC-P±
PrP»Cḡ P°PSC,PēCřPμPeCḡPμC,PsCḡPSPsC— C,PμCḡP°PīC-C— Cř CḡP°P·C-, PePsP»Pē
PīPμCḡPSPCḡP»ḡPSPēPNē PīCḡPēPNēPsPj PīCḡPμPīP°CḡP°C,Cř PSPμPjPsP¶P»PēPIPēPNē.

PμPμCḡPμPrPsP·CžPIP°PSPSCḡ.

P"PsCřPIC-Pr PSP°PIPjPēCřPSPsPiPs PīPμCḡPμPrPsP·CřPIP°PSPSCḡ PrPsC,PμPīPμCḡ PrCřP¶Pμ
PsP±PjPμP¶PμPSPēPNē. PŷPēPjPiC,PsPjP°PjPē, C%Ps PIPēPSPēPeP°P»Pē PIPSP°CřP»C-PrPsPe
PīPμCḡPSPCḡP»ḡPSPsPjCř PīCḡPēPNēPsPjCř PrPsP·Pē 280 PjPi, P±CřP»Pē PīCḡPSCḡPIPē P·
P±PsPeCř C€P»CřPSPePsPIPs-PePēC€PePsPIPsPiPs C,ḡP°PeC,Cř C,P° CřP»P°P±PeC-CřC,ḡC.
P P°P·PsPIPēPNē PīPμCḡPSPCḡP»ḡPSPēPNē PīCḡPēPNēPsPj 80 PjPi PμP·PsPjPμPīCḡP°P·PsP»Cř
C,P° PIPSCřC,ḡC-C€PSCḡPsPIPμPSPSPμ PIPμPrPμPSPSCḡ 308 PjPi
PμP·PsPjPμPīCḡP°P·PsP»Cř PīCḡPSC,CḡPiPsPj 24 PiPsPrPēPS PSP°CřP»C-PrPeC-PI PSPμ
CřPīCḡPēC‡PēPSCḡP»Pē. PŷPīPμC‡PēC,,C-C‡PSPēPNē P°PSC,PēPrPsC, PSPμPIC-PrPsPjPēPNē.
P·P·PsPjPμPīCḡP°P·PsP» P·PSP°C‡PSPēPj C‡PēPSPsPj P·PIbḡ™CḡP·CřC"ḡC,ḡCḡCḡCḡ P·
P±C-P»PeP°PjPē PīP»P°P·PjPē PeCḡPSPIC-, C,PsPjCř PīPsPiP°PSPs PIPēPIPsPrPēC,ḡCḡCḡCḡ P·P°
PrPsPīPsPjPsPiPsCḡ PrC-P°P»C-P·Cř. PīPe C- Cř PIPēPīP°PrPeCř P±CřPrCḡ-CḡPePsPiPs
PīPμCḡPμPrPsP·CřPIP°PSPSCḡ, CřP»C-Pr PSP°PrP°C,Pē CřPēPjPiC,PsPjP°C,PēC‡PSPμ
P»C-PeCřPIP°PSPSCḡ C,P° PIP¶PēC,Pē P·P°PiP°P»ḡPSPēC... PīC-PrC,ḡPēPjCřCḡC‡PēC...
P·P°C...PsPrC-PI.

PμPsP±C-C‡PSC- CḡPμP°PeCřC-C—.

Р РμР·СНРjРμ РiСНРsС,,С-Р»СН Р±РμР·РiРμРeРë

РμРsР±С-С±РsС- СНРμР°РeС†С-С—, СiРeС- РsР°РNсС±Р°С†С,С-СeРμ
Р·С†С†С,СНС-С±Р°СНС,СНС†СiС РiС-Рr С±Р°С† РiСНРsРiРμРrРμРsРsСi РeР»С-РsС-С±РsРëС...
РrРsС†Р»С-РrРiРμРsСН (Р° С,Р°РeРsРi С† РiРμСНС-РsРr
РiС-С†Р»СiСНРμС"С†С,СНР°С†С-РNсРsРsРiРs Р·Р°С†С,РsС†С†РiР°РsРsСi
Р»С-РeР°СНС†СНРeРsРiРs Р·Р°С†РsР±С†): РiРsР»РsРiРsРëРNс Р±С-Р»СН, Р±С-Р»СН С†
РiРëРiРsС,С-, РrС-Р°СНРμСiС С,Р° РsС†РrРsС,Р°. РhРeСНС-Рj С,РsРiРs, РiСНРsС,,С-Р»СН
Р±РμР·РiРμРeРë Р·Р°С†С,РsС†С†РiР°РsРsРs Р»С-РeР°СНС†СНРeРsРiРs Р·Р°С†РsР±С† С"
РsРrРsР°РeРsРiРëРj РrР»СiС НС-Р·РsРëС... Р»С-РeР°СНС†СНРeРëС... С,,РsСНРj
Р»С-РeР°СНС†СНРeРsРiРs Р·Р°С†РsР±С†, РiРsРeР°Р·Р°РsСН РrР»СiС
РiСНРëР·РsР°С±РμРsРsСi Р»С-РeС†РiР°РsРsСi, РiС-РeРsРiРëС... РiСНС†Рi С,Р°
РiРsРiС†Р»СiС†С-РNс РiР°С†С-С"РsС,С-Рi. Р"РsР·РsР·Р°Р»РμРiРsРëС... РiРsР±С-С±РsРëС...
СНРμР°РeС†С-РNс РiРëСiРiР»РμРsРs РsРμ Р±С†Р»Рs.

РμРμСНРμР»С-Рe РiРsР±С-С±РsРëС... СНРμР°РeС†С-РNс (РrРëРi. С,Р°Р±Р»РëС†СН РsРëРiС±Рμ)

РkРëРiС±РμРsР°РiРμРrРμРsС- РiРsР±С-С±РsС- СНРμР°РeС†С-С— РsР° РiСНРμРiР°СНР°С,
Р±С†Р»Рë РiРëСiРiР»РμРsС- Р°Р±Рs РiС-РrРsР·СНСНРiР°Р»РëС†СiС С† РiСНРsРiСНР°РjС-
РeР»С-РsС-С±РsРëС... РrРsС†Р»С-РrРiРμРsСН РμР·РsРjРμРiСНР°Р·РsР»С† РiСНРë РNсРsРiРs
РiРμСНРsСНР°Р»СНРsРsРjС† С±Рë РiРsС†С,СНС-СeРsСНРsРiРμРsРsРjС†
Р·Р°С†С,РsС†С†РiР°РsРsС-, Р° С,Р°РeРsРi РiС-Рr С±Р°С†
РiРsС†С,РjР°СНРeРμС,РëРsРiРsРiРsРiРs С†РiРsС†С,РμСНРμРiРμРsРsСi Р·Р°
РiРμСНРsСНР°Р»СНРsРëРj Р·Р°С†С,РsС†С†РiР°РsРsСiРj Р»С-РeР°СНС†СНРeРsРiРs
Р·Р°С†РsР±С†. Р РμР°РeС†С-С— РeР»Р°С†РëС,,С-РeРsРiР°РsС- РiС-РrРiРsРiС-РrРsРs РrРs
С±Р°С†С,РsС,Рë С—С... РiРëРsРëРeРsРμРsРsСi: РrС†РiРμ С±Р°С†С,Рs (≥ 1/10); С±Р°С†С,Рs
(≥ 1/100 - < 1/10); РsРμС±Р°С†С,Рs (≥ 1/1000 - < 1/100); СНС-РrРeРs (≥ 1/10000 - < 1/1000);
РrС†РiРμ СНС-РrРeРs (< 1/10000); С±Р°С†С,РsС,Р° РsРμРiС-РrРsРjР° (РsРμРjРsРiР»РëРiРs
РiРëР·РsР°С±РëС,Рë Р·Р° РsР°СiРiРsРëРjРë РrР°РsРëРjРë).

РлР»Р»Р°С† С†РëС†С,РμРj РsСНРiР°РsС-Рi	РsР°С†С,РsС,Р°	РμРsР±С-С±РsС- СНРμР°РeС†С-С—
Р— Р±РsРeС† РeСНРsРiС- С,Р° Р»С-РjС,,Р°С,РëС±РsРsС— С†РëС†С,РμРjРë	СНС-РrРeРs	Р»РμРNсРeРsРiРμРsС-Сi, С,СНРsРjР±РsС†РëС,РsРiРμРsС-Сi
	РrС†РiРμ СНС-РrРeРs	Р°РiСНР°РsС†Р»РsС†РëС,РsР·, РiР°РsС†РëС,РsРiРμРsС-Сi
Р— Р±РsРeС† С-РjС†РsРsС— С†РëС†С,РμРjРë	СНС-РrРeРs	СНРμР°РeС†С-С— РiС-РiРμСНС†С†С,Р»РëРiРsС†С,С-, РsР°РiСНРëРeР»Р°СНСНРiР°СНРeР°, Р°РsРiС-РsРsРμРiСНРsС,РëС±РsРëРNс РsР°Р±СНРe С,Р° Р°РsР°С,,С-Р»Р°РeС,РëС±РsС- СНРμР°РeС†С-С—/СeРsРe
Р— Р±РsРeС† РjРμС,Р°Р±РsР»С-Р·РjС† С,Р° С...Р°СНС†С†РiР°РsРsСi	РsРμС±Р°С†С,Рs	РiРμСНРëС,,РμСНРëС±РsРëРNс РsР°Р±СНРe
	СНС-РrРeРs	РiС-РiРsРsР°С,СНС-С"РjС-Сi
	С±Р°С†С,РsС,Р° РsРμРiС-РrРsРjР°	РiС-РiРsРjР°РiРsС-С"РjС-Сi (РrРëРi. СНРsР·РrС-Р» В«РhС†РsР±Р»РëРiРsС†С,С- Р·Р°С†С,РsС†С†РiР°РsРsСiВ»); С,СiРiРeР° С,,РsСНРjР° РiС-РiРsРjР°РiРsС-С"РjС-С— РjРsРiРμ РeРsСНРμР»СНРiР°РsС,Рë Р· РiС-РiРsРeР°Р»СНС†С-С"РjС-С"СН; РiС-РiРsРjР°РiРsС-С"РjС-Сi С,Р°РeРsРi РjРsРiРμ Р±С†С,Рë РiРsРiВ™ СiР·Р°РsР° Р· РiС-РiРsРeР°Р»С-С"РjС-С"СН

PμCíPëC...C-C‡PSC- CĤPsP·P»P°PrPë	PSPμC‡P°CíC,Ps	P±PμP·CíPsPSPSCıı
	CĤC-PrPePs	P·P±CíPrP¶PμPSPSCıı, CíPíP»CíC,P°PSC-CíC,CH CíPIC-PrPsPjPsCíC,C-, PrPμPíCĤPμCíC-Cıı
	PrCíP¶Pμ CĤC-PrPePs	P°PíCĤPμCíC-Cıı, PíP°P»CĤC‡PëPSP°C‡C-C—
P— P±PsPeCí PSPμCĤPIPsPIPsC— CíPëCíC,PμPjPë	C‡P°CíC,Ps	PíPsP»PsPIPsPëPNë P±C-P»CH
	PSPμC‡P°CíC,Ps	P·P°PíP°PjPsCĤPsC‡PμPSPSCıı, PíP°CĤPμCíC,PμP·C-Cıı, CíPsPSP»PëPIC-CíC,CH
	CĤC-PrPePs	PíPsCĤCíC€PμPSPSCıı CíPjP°PeCí
P— P±PsPeCí PsCĤPíP°PSC-PI P·PsCĤCí	PSPμC‡P°CíC,Ps	PSPμC‡C-C,PeC-CíC,CH P·PsCĤCí
P— P±PsPeCí PsCĤPíP°PSC-PI CíP»CíC...Cí C,P° CĤC-PIPsPsPíP°PíPë	PSPμC‡P°CíC,Ps	PIPμCĤC,PëPíPs
P— P±PsPeCí PrPëC...P°P»CHPSPsC— CíPëCíC,PμPjPë, PsCĤPíP°PSC-PI PíCĤCíPrPSPsC— PeP»C-C,PePë C,P° CíPμCĤPμPrPsCíC,C-PSPSCıı	CĤC-PrPePs	P±CĤPsPSC...PsCíPíP°P·Pj
P— P±PsPeCí C,CĤP°PIPsPsC— CíPëCíC,PμPjPë	C‡P°CíC,Ps	P±C-P»CH Cí P¶PëPIPsC,C-, P·P°PíPsCĤ, PrC-P°CĤPμCıı, PjPμC,PμPsCĤPëP·Pj, PSCíPrPsC,P°/P±P»CĤPIP°PSPSCıı, P·P°P»PsP·PëCíC,C- PíPsP»C-PíPë PrPSP° C€P»CíPSPeP° (PrPsP±CĤPsCııPeC-CíPSC-)
	PSPμC‡P°CíC,Ps	CíCíC...C-CíC,CH Cí CĤPsC,C-
	CĤC-PrPePs	CíC,PsPjP°C,PëC,, C€P»CíPSPePsPIPs- PePëC€PePsPíPëPNë PeP°PSPPrPëPrPsP·
	C‡P°CíC,PsC,P° PSPμPIC-PrPsPjP°	PjC-PeCĤPsCíPePsPíC-C‡PSPëPNë PePsP»C-C,
P— P±PsPeCí PíPμC‡C-PSPePë C,P° P¶PsPIC‡PsPíPëPIC-PrPSPëC... C€P»CııC...C-PI	PSPμC‡P°CíC,Ps	PíC-PrPíPëC‰PμPSPSCıı CĤC-PIPsCıı PíPμC‡C-PSPePsPíPëC... C,,PμCĤPjPμPSC,C-PI
	CĤC-PrPePs	PíPμPíP°C,PëC, C-P· P¶PsPIC,CııPSPëC‡PμCĤ P°P±Ps P±PμP· PSPμC—
	PrCíP¶Pμ CĤC-PrPePs	PíPμC‡C-PSPePsPíP° PSPμPrPsCíC,P°C,PSC-CíC,CH, PμPSC‡PμC,,P°P»PsPíP°C,C-Cıı Cí PíP°C‡C-C''PSC,C-PI P· PíPsPíPμCĤPμPrPSCĤPs PSP°CııPIPsPsCĤ C...PIPsCĤPsP±PsCĤ PíPμC‡C-PSPePë

P— P±PsPeCř C€PeC-ČĤPě C,P° PřC-PrC€PeC-ČĤPSPsC— PeP»C-C,PePsPIPěPSPě	C‡P°CřC,Ps	ČĤPμP°PeC†C-C— Cř PjC-CřC†C- PIPIPμPrPμPSPSCĬ*
	PSPμC‡P°CřC,Ps	PrPμČĤPjP°C,PěC,, CřPIPIPμČĤP±C-P¶, PIPěCřPěPřP°PSPSCĬ, PeČĤPsPřPěPIBĤ™ CĬPSPeP°
	ČĤC-PrPePs	P°P»PsPřPμC†C-CĬ, C,,PsC,PsC‡CřC,P»PěPIC-CřC,ČĤ
	PrCřP¶Pμ ČĤC-PrPePs	PjCřP»ČĤC,PěC,,PsČĤPjPSP° PμČĤPěC,PμPjP°, CřPěPSPřČĤPsPj PŸC,C-PIPIPμPSCřP°- P°P¶PsPSCřPsPSP°, C,PsPeCřPěC‡PSPěPNě PμPřC-PrPμČĤPjP°P»ČĤPSPěPNě PSPμPeČĤPsP»C-P·, ČĤPμP°PeC†C-CĬ PSP° P»C-PeP°ČĤCřČĤPePěPNě P·P°CřC-P± P· PμPsP·PěPSPsC,,C-P»C-C°ČĤ C,P° CřPěCřC,PμPjPSPěPjPě CřPěPjPřC,PsPjP°PjPě (DRESS)
	C‡P°CřC,PsC,P° PSPμPIC-PrPsPjP°	PřC-PrPřPsCřC,ČĤPěPNě C€PeC-ČĤPSPěPNě C‡PμČĤPIPSPSPěPNě PIPsPIC‡P°Pe (PrPěPI. ČĤPsP·PrC-P» B«PhCřPsP±P»PěPIPsCřC,C- P·P°CřC,PsCřCřPIP°PSPSCĬB»)
P— P±PsPeCř PsPřPsČĤPSPs- ČĤCřC...PsPIPsC— CřPěCřC,PμPjPě C,P° CřPřPsP»CřC‡PSPsC— C,PeP°PSPěPSPě	PSPμC‡P°CřC,Ps	PřPμČĤPμP»PsPj CřC,PμPřPSP°, P·P°PřBĤ™ CĬCřC,CĬ P°P±Ps C...ČĤPμP±C,P° (PrPěPI. ČĤPsP·PrC-P» B«PhCřPsP±P»PěPIPsCřC,C- P·P°CřC,PsCřCřPIP°PSPSCĬB»).
	ČĤC-PrPePs	P°ČĤC,ČĤP°P»PřC-CĬ, PjC-P°P»PřC-CĬ
	PrCřP¶Pμ ČĤC-PrPePs	PjBĤ™ CĬP·PsPIP° CřP»P°P±PeC-CřC,ČĤ
P— P±PsPeCř PSPěČĤPsPe C,P° CřPμC‡PsPIPěPrC-P»ČĤPSPsC— CřPěCřC,PμPjPě	PrCřP¶Pμ ČĤC-PrPePs	C-PSC,PμČĤCřC,PěC†C-P°P»ČĤPSPěPNě PSPμC,,ČĤPěC, (Cř PrPμCĬPePěC... PřP°C†C-C°PSC,C-PI PsPrPSPsC‡P°CřPSPs PřPsPIC-PrPsPjP»CĬP»PsCřCĬ PěČĤPs PSPěČĤPePsPICř PSPμPrPsCřC,P°C,PSC-CřC,ČĤ)
P— P±PsPeCř ČĤPμPřČĤPsPrCřPeC,PěPIPSPsC— CřPěCřC,PμPjPě C,P° PjPsP»PsC‡PSPěC... P·P°P»PsP·	PrCřP¶Pμ ČĤC-PrPePs	PřC-PSPμPePsPjP°CřC,C-CĬ
P— P°PřP°P»ČĤPSC- ČĤPsP·P»P°PrPě C,P° ČĤPμP°PeC†C-C— Cř PjC-CřC†C- PIPIPμPrPμPSPSCĬ	ČĤC-PrPePs	PSPμP·PrCřP¶P°PSPSCĬ, PřPsCřPěP»PμPSPμ PřPsC,PsPIPěPrC-P»PμPSPSCĬ

*P PμP°PeC†C-C— Cř PjC-CřC†C- PIPIPμPrPμPSPSCĬ CřPřPsCřC,PμČĤC-PřP°P»PěCřCĬ
PřPμČĤPμPIP°P¶PSPs Cř PrPsCřP»C-PrP¶PμPSPSC- C-P· P·P°CřC,PsCřCřPIP°PSPSCĬPj
PIPěCřPsPePěC... PrPsP· PěČĤPsC,CĬPřPsPj 3 PrC-P± (72 PřPsPrPěPS).

PřPμP·PIPSCĤPsC,PSC- PřPsČĤCřC€PμPSPSCĬ P·PsČĤCř PIC-PrP·PSP°C‡P°P»PěCřCĬ Cř
PřPsPsPrPěPSPsPePěC... PIPěPřP°PrPeP°C... Cř PeČĤPěC,PěC‡PSPs C...PIPsČĤPěC...
PřP°C†C-C°PSC,C-PI, CĬPeC- PsC,ČĤPěPjCřPIP°P»Pě PsPjPμPřČĤP°P·PsP» (ČĤP°C†PμPjP°C,) Cř
PIPěPřP»CĬPrC- PIPSCřC,ČĤC-C€PSCĤPsPIPIPμPSPSPsC— C-PSBĤ™ C°PeC†C-C—,
PsCřPsP±P»PěPIPs Cř PIPěCřPsPePěC... PrPsP·P°C..., PsPrPSP°Pe PěČĤPěC‡PěPSPSPs-
PSP°CřP»C-PrPePsPIPěPNě P·PIBĤ™ CĬP·PsPe PSPμ PICřC,P°PSPsPIP»PμPSPěPNě.

PμPμPrC-P°C,ČĤPěC‡PSP° PřPsPřC‡P»CĬC†C-CĬ

1 C,,P»P°PePsPS P· P»C-PsC,,C-P»C-P·P°C,PsPj Cí PePsCḡPsP±C†C-.

PḡP°C,PμPiPsCḡC-Cḡ PIC-PrPīCíCíPēCí. P—P° CḡPμC†PμPīC,PsPj.

P’PēCḡPsP±PSPēPe.

PḡCíPīC-CḡPs PαP°CḡPjP° P>C-PjC-C,PμPr/Aspiro Pharma Limited.

**PḡC-CíC†PμP·PSP°C...PsPrPḡPμPSPSCḡ PIPēCḡPsP±PSPēPeP° C,P° P°PrCḡPμCíP°
PjC-CíC†Cḡ PīCḡPsPIP°PrPḡPμPSPSCḡ PNḡPsPiPs PrC-CḡP»CHḡPSPsCíC,C-.**

PŸC-.Б,, -321, P’C-PsC,PμC... PīP°CḡPe, PαPμPNḡP·-P†P†P†, PḡP°CḡPeP°PīP°C,P»P° P’C-P»PμPrPḡ,
PḡP°CḡPeCíPe PḡP°PSPPrP°P», PŸPēPrPrC-PīPμC, P”PēCíC,-502281, PŸPμP»P°PSPiP°PSP°
PŸC,PμPNḡC,, P†PSPPrC-Cḡ / Sy.No.321, Biotech park, Phase-III, Karkapatla Village, Markook
Mandal, Siddipet Dist-502281, Telangana State, India.