

PŸPĭPsCṽPë P·P° CÍPIPsC”CḦ PĭCṽPëCṽPsPrPsCḦ P·PrP°C,PSC- PĭPμCṽPμPSPScÍPëC,Pë  
PIPëCÍPsPeCr C,PμPjPĭPμCṽP°C,CrCṽCÍ C,P° CēP»CrPSPePsPICr PePëCÍP»PsC,PSC-CÍC,CH. PJ  
PiC-PrC,PIPμCṽPrP¶PμPSC-PNë PjPsPrPμP»C- *in vitro* CÍPĭPsCṽPë *Bacillus clausii*  
PĭCṽPsPrPμPjPsPSCÍC,CṽCÍPIP°P»Pë P·PrP°C,PSC-CÍC,CH PIPëP¶PëPIP°C,Pë PI PjPsPrPμP»C-,  
C%oPs C-PjC-C,CrC” CÍPμCṽPμPrPsPIPëC%oPμ CēP»CrPSPeP° (pH 1,4Bṽ“1,5), PrPs 120  
C...PIPëP»PëPS (PePsPμC,,C-C†C-C”PSC, PIPëP¶PëPIP°PSPSCΠ 96 %). PJ PjPsPrPμP»C-, C%oPs

C-PjC-C,CrC" PePëC€PePsPIPµ CÍPµCĤPµPrPsPIPëC%Pµ (CÍPsP»CHPsPIPëPNë CĤPsP·C±PëPS P¶PsPIC±C- C,P° PíP°PSPeCĤPµP°C,PëPSCr 8) pH 8), CÍPíPsCĤPë *Bacillus clausii* PíCĤPsPrPµPjPsPSCÍC,CĤCrPIP°P»Pë P·PrP°C,PSC-CÍC,CĤ CĤPsP·PjPSPsP¶CÍPIP°C,PëCÍCĬ PíPsCĤC-PIPSCĬPSPs P· PíPsC±P°C,PePsPIPsCĤ PeC-P»CHPeC-CÍC,CĤ PI CÍC,P°C,PëCÍC,PëC±PSPs P·PSP°C±CrC%PëPNë CÍPíPsCÍC-P± (PIC-Pr 10<sup>9</sup> PrPs 10<sup>12</sup> PePsP»PSPSC-C"CrC,PIPsCĤCĤPIP°P»CHPSPëC... PsPrPëPSPëC±CH (PñPjPh)), PíPsC±PëPSP°CĤC±Pë P· 240 C...PIPëP»PëPS PíC-CÍP»CĬ C-PSPeCrP±P°C±C-C—. PJ PrPsCÍP»C-PrP¶PµPSPSC-, CĬPePµ PíCĤPsPIPsPrPëP»PSCÍCĬ P·P° CrC±P°CÍC,CĤ 20 PsCÍC-P±, P±CrP»Ps PIC-PrP·PSP°C±PµPSPs, C%Ps Cr P»CHPrPëPSPë CÍPíPsCĤPë *Bacillus clausii* PíPsCÍC,C-PNëPSPs P¶PëPICrC,CĤ Cr PePëC€PµC±PSPëPeCr PNë PjPsP¶CÍC,CĤ P±CrC,Pë PIPëCĬPIP»PµPSC- PI PeP°P»C- PíCĤPsC,CĬPiPsPj PíPµCĤC-PsPrCr PrPs 12 PrPSC-PI PíC-CÍP»CĬ PsPrPSPsCĤP°P·PsPIPsPiPs PíPµCĤPsCĤP°P»CHPSPsPiPs PíCĤPëPNëPsPjCr.

P—P°PIPrCĬPePë PrC-C— *Bacillus clausii* PíCĤPµPíP°CĤP°C, PIC-PrPSPsPIP»CĤC" PePëC€PePsPICr PjC-PeCĤPsC,,P»PSCĤCr, P·PjC-PSPµPSCr Cr CĤPµP·CrP»CHC,P°C,C- C,PµCĤP°PíC-C— P»C-PeP°CĤCÍCHPePëPjPë P·P°CÍPsP±P°PjPë, C%Ps PíCĤPëP·PIPsPrCĬC,CĤ PrPs PrPëCÍP±P°PeC,PµCĤC-PsP·Cr (C,P°PePsP¶ PIC-PrPsPjPsPiPs CĬPe PrPëCÍP±C-PsP·), CĬPePëPNë C,P°PePsP¶ PjPsP¶Pµ P±CrC,Pë PíPsPIbĤ™ CĬP·P°PSPëPNë P·C- C€P»CrPSPePsPIPs- PePëC€PePsPIPëPjPë CÍPëPjPíC,PsPjP°PjPë, C,P°PePëPjPë CĬPe PrC-P°CĤPµCĬ, P±C-P»CH Cr P¶PëPIPsC,C- C,P° PjPµC,PµPsCĤPëP·Pj (P·PrCrC,C,CĬ PePëC€PµC±PSPëPeCr). PñCĤC-Pj C,PsPiPs, P·P°PIPrCĬPePë P·PrP°C,PSPsCÍC,C- *Bacillus clausii* CÍPëPSC,PµP·CrPIP°C,Pë CĤC-P·PSC- PIC-C,P°PjC-PSPë, PsCÍPsP±P»PëPIPs PíCĤCrPíPë P', PíCĤPµPíP°CĤP°C, CÍPíCĤPëCĬC" PePsCĤPµPeC±C-C— PrPëCÍPIC-C,P°PjC-PSPsP·Cr, CÍPíCĤPëC±PëPSPµPSPsPiPs P·P°CÍC,PsCÍCrPIP°PSPSCĬPj P°PSC,PëP±C-PsC,PëPeC-PI P°P±Ps C...C-PjC-PsC,PµCĤP°PíPµPIC,PëC±PSPëC... PíCĤPµPíP°CĤP°C,C-PI. P—P°PIPrCĬPePë PjPµC,P°P±PsP»C-C±PSC-PNë P°PeC,PëPIPSPsCÍC,C- *Bacillus clausii* P·P°CÍC,PsCÍCrPIP°PSPSCĬ PíCĤPµPíP°CĤP°C,Cr PrP°C" P·PjPsPiCr PrPsCÍCĬPiC,Pë PSPµCÍPíPµC±PëC,,C-C±PSPsPiPs P°PSC,PëPiPµPSPSPsPiPs C,P° P°PSC,PëC,PsPeCÍPëC±PSPsPiPs PµC,,PµPeC,Cr.

P—P°PIPrCĬPePë PIPëCÍPsPeC-PNë CĤPµP·PëCÍC,PµPSC,PSPsCÍC,C- PrPs C...C-PjC-C±PSPëC... C- C,,C-P·PëC±PSPëC... P°PiPµPSC,C-PI CÍPíPsCĤPë *Bacillus clausii* PíCĤPsC...PsPrCĬC,CĤB PSPµCrC€PePsPrP¶PµPSPëPjPë PeCĤC-P·CH P±P°CĤbĤ™ C" CĤ C€P»CrPSPePsPIPsPiPs CÍPsPeCr PI PePëC€PµC±PSPëPNë C,CĤP°PeC,, PrPµ PIPsPSPë PíPµCĤPµC,PIPsCĤCĤC,CĤCÍCĬ PI PjPµC,P°P±PsP»C-C±PSPs P°PeC,PëPIPSC- PIPµPiPµC,P°C,PëPIPSC- PeP»C-C,PëPSPë.

Pj PrPIPsC... PIC-PrPeCĤPëC,PëC... CĤP°PSPrPsPjC-P·PsPIP°PSPëC... PePsPSC,CĤPsP»CHPsPIP°PSPëC... PeP»C-PSC-C±PSPëC... PrPsCÍP»C-PrP¶PµPSPSCĬC... P»C-PeP°CĤCÍCHPePëPNë P·P°CÍC-P± P·PSC,PµCĤPsP¶PµCĤPjC-PSP°<sup>B</sup> P±PsCĤC,Pµ PíCĤPsPrPµPjPsPSCÍC,CĤCrPIP°PI P·PSPëP¶PµPSPSCĬ C,CĤPëPIP°P»PsCÍC,C- PíPsCÍC,CĤPsC— PrC-P°CĤPµC— Cr PrC-C,PµPNë PIC-PePsPj PIC-Pr 6 PjC-CÍCĬC±C-PI.

P—P° CrPjPsPIPë PíCĤPëPNëPsPjCr PíC-Pr C±P°CÍ P»C-PeCrPIP°PSPSCĬ P°PSC,PëP±C-PsC,PëPeP°PjPë C,P° PíCĤPsC,CĬPiPsPj PSP°CÍC,CrPíPSPëC... 7bĤ"10 PrPSC-PI P·PSC,PµCĤPsP¶PµCĤPjC-PSP°<sup>B</sup> P±PsCĤC,Pµ PíCĤPsPrPµPjPsPSCÍC,CĤCrPIP°P»P° P·PSPëP¶PµPSPSCĬ C±P°CÍC,PsC,Pë P±PsP»CH PI P¶PëPIPsC,C- C,P° PrC-P°CĤPµC—, PíPsPIbĤ™ CĬP·P°PSPëC... C-P· P·P°CÍC,PsCÍCrPIP°PSPSCĬPj P°PSC,PëP±C-PsC,PëPeC-PI.

P—P°P·PSP°C±PµPSC- PSPëP¶C±Pµ 2 PsCÍPSPsPIPSC- PIP»P°CÍC,PëPIPsCÍC,C- *Bacillus clausii* CÍPíCĤPëCĬCĤC,CĤ PIC-PrPSPsPIP»PµPSPSCĤ PePëC€PePsPIPsC— P±P°PeC,PµCĤC-P°P»CHPSPsC— C,,P»PsCĤPë.

P±PSPiC-P±C±PIP°PSPSCĬ P·CĤPsCÍC,P°PSPSCĬ PíP°C,PsPiPµPSPSPëC... P±P°PeC,PµCĤC-PNë

PŷCĤCHbPsPjP° P№PjPsPIC-CĤPSPëPjPë PjPµC...P°PSC-P·PjP°PjPë PrC-C— *B. clausii* C":  
 PePsP»PsPSC-P·P°C†C-CĬ PIC-P»CHbPSPëC... PµPePsP»PsPiC-C‡PSPëC... PSC-C€, C%Ps  
 P·P°PīPsP±C-PiP°C" P·CĤPsCĬC,P°PSPSCĤ C-PSC€PëC... PjC-PeCĤPsPsCĤPiP°PSC-P·PjC-PI;  
 PePsPSPeCfCĤPµPSC†C-CĬ P·P° P·PiBĤ™ CĬP·PsPe P· PµPiC-C,PµP»C-P°P»CHbPSPëPjPë  
 PeP»C-C,PëPSP°PjPë, C%Ps PsCĬPsP±P»PëPIPs CĬC,PsCĬCfC"C,CHbCĬCĬ CĬPiPsCĤ CĬ  
 PīPsC‡P°C,PePsPIC-P№ C- PiCĤPsPjC-P¶PSC-P№ C,,P°P·P°C... PiPµCĤPjC-PSP°C†C-C—;  
 PIPëCĤPsP±P»PµPSPSCĬ P°PSC,PëP±C-PsC,PëPeC-PI C-/P°P±Ps C,,PµCĤPjPµPSC,C-PI, CĬPeC-  
 CĬPµPeCĤPµC,CfCĤC,CHbCĬCĬ PI PePëC€PePsPIPsPjCĬ CĬPµCĤPµPrPsPIPëC%C-. PJ  
 PrPsCĬP»C-PrP¶PµPSPSC- *in vitro* CĬPiPsCĤPë *Bacillus clausii*  
 PiCĤPsPrPµPjPsPSCĬC,CĤCfPIP°P»Pë PIPëCĤPsP±P»PµPSPSCĬ P±P°PeC,PµCĤC-PsC†PëPSC-PI  
 C- P°PSC,PëP±C-PsC,PëPeC-PI, C,P°PePëC... CĬPe PeP»P°CfP·PëPS, P·  
 P°PSC,P°PiPsPSC-CĬC,PëC‡PSPsCĤ P°PeC,PëPIPSC-CĬC,CĤ PiCĤPsC,Pë  
 PiCĤP°PjPiPsP·PëC,PëPIPSPëC... P±P°PeC,PµCĤC-P№ *Staphylococcus aureus, Clostridium difficile,*  
*Enterococcus faecium.*

*P†PjCžPSPsPjPsPrCžP»CĤCĤC‡P° P°PeC,PëPIPSC-CĬC,CH*

PŷPiPsCĤPë *Bacillus clausii*, P·P°CĬC,PsCĬPsPIP°PSC- PiPµCĤPsCĤP°P»CHbPSPs, CĬ  
 PjPsPrPµP»CĬC... *in vitro* C,P° *in vivo* PSP° PjPëC€P°C... PiCĤPsPrPµPjPsPSCĬC,CĤCfPIP°P»Pë  
 CĬC,PëPjCfP»CĤPIP°PSPSCĬ PIPëCĤPsP±P»PµPSPSCĬ C-PSC,PµCĤC,,PµCĤPsPSCĬ-PiP°PjPjP°  
 C,P° P·P±C-P»CHbC€PµPSPSCĬ PiCĤPsP»C-C,,PµCĤP°C†C-C— CD4 T-P»C-PjC,,PsC†PëC,C-PI.

*PᄁP°CĤPjP°PePsPeC-PSPµC,PëPeP°.*

PµCĤPµPiP°CĤP°C, PSPµ PIP·P°C"PjPsPrC-C" P· C,P°PePëPjPë P°PSC,PëP±C-PsC,PëPeP°PjPë:  
 PiPµPSC-C†PëP»C-PS PiCĤPë P·P°CĬC,PsCĬCfPIP°PSPSC- PSPµ PI PePsPjP±C-PSP°C†C-C— P·  
 C-PSPiC-P±C-C,PsCĤP°PjPë P±PµC,P°-P»P°PeC,P°PjP°P·Pë, C†PµC,,P°P»PsCĬPiPsCĤPëPSPë  
 (C‡P°CĬC,PePsPIP° CĤPµP·PëCĬC,PµPSC,PSC-CĬC,CHb CĬ P±C-P»CHbC€PsCĬC,C-  
 PIPëPiP°PrPeC-PI), C,PµC,CĤP°C†PëPeP»C-PSPë, PjP°PeCĤPsP»C-PrPë,  
 P°PjC-PSPsPiP»C-PePsP·PëPrPë (P·P° PIPëPSCĬC,PePsPj PiPµPSC,P°PjC-C†PëPSCĬ C-  
 P°PjC-PeP°C†PëPSCĬ), C...P»PsCĤP°PjC,,PµPSC-PePsP», C,C-P°PjC,,PµPSC-PePsP»,  
 P»C-PSPePsPjC-C†PëPS, PeP»C-PSPrP°PjC-C†PëPS, C-P·PsPSC-P°P·PëPr,  
 C†PëPeP»PsCĬPµCĤPëPS, PSPsPIPsP±C-PsC†PëPS, CĤPëC,,P°PjPiC-C†PëPS,  
 PSP°P»C-PrPëPeCĬPsPIP° PePëCĬP»PsC,P° C- PiC-PiPµPjC-PrPsPIP° PePëCĬP»PsC,P°  
 (PiCĤPsPjC-P¶PSP° CĤPµP·PëCĬC,PµPSC,PSC-CĬC,CHb), PjPµC,CĤPsPSC-PrP°P·PsP».

**PᄂP»C-PSC-C‡PSC- C...P°CĤP°PeC,PµCĤPëCĬC,PëPePë.**

***PµPsPeP°P·P°PSPSCĬ.***

P>C-PeCfPIP°PSPSCĬ C,P° PiCĤPsC,,C-P»P°PeC,PëPeP° PrPëCĬP±P°PeC,PµCĤC-PsP·CĬ  
 PePëC€PµC‡PSPëPeCĬ C,P° PīPsPiBĤ™ CĬP·P°PSPsPiPs P· PSPëPj PµPSPrPsPiPµPSPSPsPiPs  
 PrPëCĬPIC-C,P°PjC-PSPsP·CĬ.

P"PsPiPsPjC-P¶PSP° C,PµCĤP°PiC-CĬ, CĬPiCĤCĬPjPsPIP°PSP° PSP° PIC-PrPSPsPIP»PµPSPSCĬ  
 PSPsCĤPjP°P»CHbPSPsC— PjC-PeCĤPsC,,P»PsCĤPë PePëC€PµC‡PSPëPeCĬ, C%Ps  
 PīPsCĤCfC€CĬC"C,CHbCĬCĬ PiC-Pr C‡P°CĬ P»C-PeCfPIP°PSPSCĬ P°PSC,PëP±C-PsC,PëPeP°PjPë  
 P°P±Ps C...C-PjC-PsC,PµCĤP°PiPµPIC,PëC‡PSPëPjPë PiCĤPµPiP°CĤP°C,P°PjPë.

P°PSCfC,CfC- C,P° C...CfPSPSC-CfPSC- C€P»CfPSPePsPIPs-PeP€C€PePsPIC-  
P·P°C...PIPsCfCfPIP°PSPSCf C P°PSPµPjPsPIP»CfC,, PīPsPIb™ CfP·P°PSC- P·  
C-PSC,PSeCfPēPeP°C†C-C°Cf P°P±Ps PrPēCfP±P°PeC,PµCfC-PsP·PsPj PeP€C€PµC†PSPēPeCf  
C,P° PrPēCfPIC-C,P°PjC-PSPsP·PsPj,

***PµCfPSc,PēPīPsPeP°P·P°PSPSCf.***

P°C-PīPµCfC†CfC,P»PēPIC-CfC,Cf PrPs PrC-CfC†PsC— CfPµC†PsPIPēPSPē P°P±Ps PrPs  
P±CfPrCf-CfPePsC— P· PrPsPīPsPjC-P¶PSPēC... CfPµC†PsPIPēPS PīCfPµPīP°CfP°C,Cf.

***P°P·P°C°PjPsPrC-Cf P· C-PSC€PēPjPē P»C-PeP°CfCfCfPePēPjPē P·P°CfPsP±P°PjPē C,P°  
C-PSC€C- PIPēPrPē PIP·P°C°PjPsPrC-PN₂.***

P°PSCfP»C-PrP¶PµPSCf PIP·P°C°PjPsPrC-C— PSPµ PīCfPSPsPIPsPrPēP»PsCfCf.

***PfCfPsP±P»PēPIPsCfC,C- P·P°CfC,PScfCzPIP°PSPSCf.***

Pj C,,P»P°PePsPSP°C... P· PīCfPµPīP°CfP°C,PSPj P·PSC,PµCfPSP¶PµCfPjC-PSP° PαPsCfC,Pµ  
PjPsP¶P»PēPIP° PSP°CfPIPSC-CfC,Cf PIPēPrPēPjPēC... C†P°CfC,PSc†PsPe, C°Ps  
CfC,PIPsCfCfCfC,CfCfCf PIPSP°CfP»C-PrPsPe P°PīCfPµPīP°C†C-C— CfPīPsCf *Bacillus  
clausii* C,P° PSPµ CfPIC-PrC†P°C,Cf PīCfPs C,Pµ, C°Ps PīCfPµPīP°CfP°C, P·P·P·PSP°PI  
P±CfPrCf-CfPePēC... P·PjC-PS.

PµPµCfPµPr P·P°CfC,PScfCfPIP°PSPSCfPj C,,P»P°PePsPS CfP»C-Pr CfC,CfCfCfPēC,Pē.

PµCfPµPīP°CfP°C, PjP°C° PIPēCfPsPePēPN₂ CfC,CfPīC-PSCh PīPµC,PµCfPsP»PsPiC-C†PSPsC—  
CfPµP·PēCfC,PµPSC,PSPsCfC,C- PrPs P°PSC,PēP±C-PsC,PēPeC-PI, C°Ps PrP°C° P·PjPsPīCf  
P·P°CfC,PScfPsPICfPIP°C,Pē PN₂PsPiPs CfPe PrP»Cf PīCfPsC,,C-P»P°PeC,PēPePē P·PjC-PSPē  
PjC-PeCfPsC,,P»PsCfPē PeP€C€PµC†PSPēPeCf, CfPīCfPēC†PēPSPµPSPsC—  
CfPµP»PµPeC,PēIPSPsCf PrC-C°Cf P°PSC,PēP±C-PsC,PēPeC-PI (PsCfPsP±P»PēPIPs  
P°PSC,PēP±C-PsC,PēPeC-PI C€PēCfPsPePsPiPs CfPīPµPeC,CfP° PrC-C—), C,P°Pe C- PrP»Cf  
PIC-PrPSPsPIP»PµPSPSCf PIP¶Pµ PīPsCfCfC€PµPSPsPiPs P±P°P»P°PSCfCf  
PjC-PeCfPsC,,P»PsCfPē PeP€C€PµC†PSPēPeCf.

PīPeC°Ps PīCfPµPīP°CfP°C, PīCfPēP·PSP°C†P°C,Pē PsPrPSPsC†P°CfPSPs P·  
P°PSC,PēP±C-PsC,PēPeP°PjPē, PN₂PsPiPs CfP»C-Pr P·P°CfC,PScfPsPICfPIP°C,Pē PjC-P¶  
PrPIPsPjP° PīCfPēPN₂PsPjP°PjPē P°PSC,PēP±C-PsC,PēPeP°.

PjPµPN₂ P»C-PeP°CfCfCfPePēPN₂ P·P°CfC-P± PīCfPēP·PSP°C†PµPSPēPN₂ PIPēPeP»CfC†PSPs  
PrP»Cf PīPµCfPsCfP°P»ChPSPsPiPs P·P°CfC,PScfCfPIP°PSPSCf.  
P—P°P±PsCfPsPSCfC°C,CfCfCf PIPsPrPēC,Pē PīCfPµPīP°CfP°C,  
C-PSb™ C°PeC†C-PN₂PSPēPj P°P±Ps P±CfPrCf-CfPePēPj C-PSC€PēPj C€P»CfC...PsPj.  
PµPµPePsCfPµPeC,PSPµ P·P°CfC,PScfCfPIP°PSPSCf C†ChPsPiPs P»C-PeP°CfCfCfPePsPiPs  
P·P°CfPsP±Cf PīCfPēP·PIPsPrPēP»Ps PrPs PIPēPSPēPePSPµPSPSCf C,CfP¶PePēC...  
P°PSP°C,,C-P»P°PeC,PēC†PSPēC... CfPµP°PeC†C-PN₂, C,P°PePēC... CfPe  
P°PSP°C,,C-P»P°PeC,PēC†PSPēPN₂ C€PsPe.

*P°P°PeC,PμCḡC-C°PjC-Cḡ C,P° CḡPμPīCḡPēCḡ*

*PμPsCḡC,PjP°CḡPePμC,PēPSPiPsPIC- PIPēPīP°PrPePē P±P°PeC,PμCḡC-C°PjC-C—, CḡPμPīC,PēC†PμPjC-C— C,P° CḡPμPīCḡPēCḡCḡ P±CḡP»Pē PIPēCḡPIP»PμPSC- Cḡ PīP°C†C-C°PSC,C-PI P· PsCḡP»P°P±P»PμPSPēPj C-PjCḡPSC-C,PμC,PsPj P°P±Ps Cḡ C,CḡP¶PePsC...PIPSCḡPēC... PīP°C†C-C°PSC,C-PI, P° C,P°PePsP¶ Cḡ PSPμPrPsPSPsCēPμPSPēC... PrC-C,PμPNē. Pj PrPμCḡPePēC... C...PIPSCḡPēC... Cḡ C,CḡP¶PePsPjCḡ CḡC,P°PSC- CḡPμP·CḡP»CHC,P°C, P±CḡPI P»PμC,P°P»CHPSPēPj. P|PēPj PiCḡCḡPīP°Pj PīP°C†C-C°PSC,C-PI CḡP»C-Pr CḡPSPēPeP°C,Pē P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PīCḡPμPīP°CḡP°C,Cḡ P·PSC,PμCḡPsP¶PμCḡPjC-PSP°<sup>B®</sup> PαPsCḡC,Pμ (PrPēPI. CḡPsP·PrC-P» B«PμPsP±C-C†PSC- CḡPμP°PeC†C-C-B»).*

*P—P°CḡC,PsCḡCḡPIP°PSPSCḡ Cḡ PīPμCḡC-PsPr PIP°PiC-C,PSPSCḡC,C- P°P±Ps PiPsPrCḡPIP°PSPSCḡ PiCḡCḡPrPrCḡ.*

*P°P°PiC-C,PSC-CḡC,CH. P°PsCḡC,CḡPīPSC- PrP°PSC- C%PsPrPs P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PeP°PīCḡCḡP» P·PSC,PμCḡPsP¶PμCḡPjC-PSP°<sup>B®</sup> PαPsCḡC,Pμ PIP°PiC-C,PSPēPj P¶C-PSPeP°Pj, C° PsP±PjPμP¶PμPSPēPjPē, C,PsPjCḡ PSPμ PjPsP¶PSP° P·CḡPsP±PēC,Pē PIPēCḡPSPsPiPsPe C%PsPrPs P±PμP·PīPμPePē P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PīCḡPμPīP°CḡP°C,Cḡ PīC-Pr C†P°Cḡ PIP°PiC-C,PSPSCḡC,C-.*

*PμCḡPμPīP°CḡP°C, P·PSC,PμCḡPsP¶PμCḡPjC-PSP°<sup>B®</sup> PαPsCḡC,Pμ PjPsP¶PSP° P·P°CḡC,PsCḡPsPICḡPIP°C,Pē PiC-Pr C†P°Cḡ PIP°PiC-C,PSPsCḡC,C- P»PēCēPμ Cḡ CḡP°P·C-, PePsP»Pē PīPsC,PμPSC†C-PNēPSP° PePsCḡPēCḡC,CH PrP»Cḡ PIP°PiC-C,PSPsC— PīPμCḡPμPIPēC%CḡC° PīPsC,PμPSC†C-PNēPSC- CḡPēP·PēPePē, PIPeP»CHC†PSPs P· CḡPēP·PēPeP°PjPē PrP»Cḡ PīP»PsPrP°.*

*PμPμCḡC-PsPr PiPsPrCḡPIP°PSPSCḡ PiCḡCḡPrPrCḡ. P°PsCḡC,CḡPīPSC- PrP°PSC- C%PsPrPs P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PeP°PīCḡCḡP» P·PSC,PμCḡPsP¶PμCḡPjC-PSP°<sup>B®</sup> PαPsCḡC,Pμ PI PīPμCḡC-PsPr PiPsPrCḡPIP°PSPSCḡ PiCḡCḡPrPrCḡ, P° CḡP°PjPμ C%PsPrPs PSP°CḡPIPSPsCḡC,C- PīCḡPμPīP°CḡP°C,Cḡ Cḡ PiCḡCḡPrPSPsPjCḡ PjPsP»PSC†C- C,P° PIPīP»PēPICḡ PSP° PSPμPjPsPIP»Cḡ, C° PsP±PjPμP¶PμPSPēPjPē, C,PsPjCḡ PSPμ PjPsP¶PSP° P·CḡPsP±PēC,Pē PIPēCḡPSPsPiPePē C%PsPrPs P±PμP·PīPμPePē P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PīCḡPμPīP°CḡP°C,Cḡ PI PīPμCḡC-PsPr PiPsPrCḡPIP°PSPSCḡ PiCḡCḡPrPrCḡ.*

*PμCḡPμPīP°CḡP°C, P·PSC,PμCḡPsP¶PμCḡPjC-PSP°<sup>B®</sup> PαPsCḡC,Pμ PjPsP¶PSP° P·P°CḡC,PsCḡPsPICḡPIP°C,Pē PI PīPμCḡC-PsPr PiPsPrCḡPIP°PSPSCḡ PiCḡCḡPrPrCḡ, P»PēCēPμ CḡPeC%Ps PīPsC,PμPSC†C-PNēPSP° PePsCḡPēCḡC,CH PrP»Cḡ PjP°C,PμCḡC- PīPμCḡPμPIPēC%CḡC° PīPsC,PμPSC†C-PNēPSC- CḡPēP·PēPePē, PIPeP»CHC†PSPs P· CḡPēP·PēPeP°PjPē PrP»Cḡ PrPēC,PēPSPē, CḡPeP° PīPμCḡPμP±CḡPIP°C° PSP° PiCḡCḡPrPSPsPjCḡ PIPēPiPsPrPsPICḡPIP°PSPSC-.*

*PαPμCḡC,PēP»CHPSC-CḡC,CH. P°P°PSPēC... C%PsPrPs PIPīP»PēPICḡ P»C-PeP°CḡCḡCHPePsPiPs P·P°CḡPsP±Cḡ P·PSC,PμCḡPsP¶PμCḡPjC-PSP°<sup>B®</sup> PαPsCḡC,Pμ PSP° C,,PμCḡC,PēP»CHPSC-CḡC,CH P»CHPrPēPSPē PSPμPjP°C°.*

*P—PrP°C,PSC-CḡC,CH PIPīP»PēPIP°C,Pē PSP° CēPIPēPrPeC-CḡC,CH CḡPμP°PeC†C-C— PīCḡPē PePμCḡCḡPIP°PSPSC- P°PIC,PsC,CḡP°PSCḡPīPsCḡC,PsPj P°P±Ps C-PSCēPēPjPē*

*PjPμC...P°PSC-P·PjP°PjPë.B B B*

P·PSC,PμCḡPsP¶PμCḡPjC-PSP°<sup>B®</sup> PαPsCḡC,Pμ PSPμ PIPiP»PëPIP°C” PSP° P·PrP°C,PSC-CḡC,CH PePμCḡCḡPIP°C,Pë C,CḡP°PSCḡPḡPsCḡC,PSPëPjPë P·P°CḡPsP±P°PjPë C,P° PḡCḡP°C†CḡPIP°C,Pë P·C-PSCëPëPjPë PjPμC...P°PSC-P·PjP°PjPë.

***PŸPḡPsCḡC-P± P·P°CḡC,PSCḡCḡPIP°PSPSCḡ C,P° PrPsP·Pë.***

P’PjC-CḡC, C,,P»P°PePsPSP° PḡCḡPëPNëPjP°CḡC,CH P±PμP· CḡPsP·PIPμPrPμPSPSCḡ P°P±Ps CḡPsP·PIPsPrCḡC,CH Cḡ PIPsPrC- C†Pë C-PSCëPëC... PSP°PḡPsCḡC... (PSP°PḡCḡPëPeP»P°Pr Cḡ PjPsP»PsC†C-, C†P°C— P°P±Ps Pḡ PḡPḡPμP»CHCḡPëPSPsPIPsPjCḡ CḡPsPeCḡ). PḡPμPNë P»C-PeP°CḡCḡCHPePëPNë P·P°CḡC-P± PḡCḡPëP·PSP°C†PμPSPëPNë P»PëCëPμ PrP»Cḡ PḡPμCḡPsCḡP°P»CHPSPsPiPs P·P°CḡC,PSCḡCḡPIP°PSPSCḡ. PḡPμ PIPiPsPrPëC,Pë PḡP°CḡPμPSC,PμCḡP°P»CHPSPs C- PSPμ P·P°CḡC,PSCḡPsPICḡPIP°C,Pë C-PSCëPëPj CḡPḡPsCḡPsP±PsPj.

P”PsP·P° PrP»Cḡ PrPsCḡPsCḡP»PëC... Bḡ” 5 PjP» (1 C,,P»P°PePsPS) PSP° PrPsP±Cḡ.

P”C-C,Pë. PμCḡPμPḡP°CḡP°C, PjPsP¶PSP° P·P°CḡC,PSCḡPsPICḡPIP°C,Pë PrC-C,CḡPj PIC-PePsPj PIC-Pr 28 PrPSC-PI. PμCḡPμPḡP°CḡP°C, P·P°CḡC,PSCḡPsPICḡCḡC,CH PSPμPjPsPIP»CḡC,P°Pj C- PrC-C,CḡPj Cḡ PrPsP·C- 5 PjP» (1 C,,P»P°PePsPS) PSP° PrPsP±Cḡ.

PŸPμCḡPjC-PSB P»C-PeCḡPIP°PSPSCḡB PICḡC,P°PSPsPIP»CḡC” P»C-PeP°Cḡ P·P°P»PμP¶PSPs PIC-Pr CḡC,P°PSCḡ PḡP°C†C-C”PSC,P° C,P° PḡPμCḡPμP±C-PiCḡ P·P°C...PIPsCḡCḡPIP°PSPSCḡ:

- P»C-PeCḡPIP°PSPSCḡ C,P° PḡCḡPsC,,C-P»P°PeC,PëPeP° PrPëCḡP±P°PeC,PμCḡC-PsP·Cḡ PePëCëPμC†PSPëPeCḡ C,P° PḡPsPḡBḡ™ CḡP·P°PSPsPiPs P· PSPëPj PμPSPPrPsPiPμPSPSPsPiPs PrPëCḡPIC-C,P°PjC-PSPsP·Cḡ Bḡ” 5Bḡ”7 PrPSC-PI;

- PrPsPḡPsPjC-P¶PSP° C,PμCḡP°PḡC-Cḡ, CḡPḡCḡPjPsPIP°PSP° PSP° PIC-PrPSPsPIP»PμPSPSCḡ PSPsCḡPjP°P»CHPSPsC— PjC-PeCḡPsC,,P»PsCḡPë PePëCëPμC†PSPëPeCḡ, C%Ps PḡPsCḡCḡCëCḡC”C,CHCḡCḡ PḡC-Pr C†P°Cḡ P»C-PeCḡPIP°PSPSCḡ P°PSC,PëP±C-PsC,PëPeP°PjPë P°P±Ps C...C-PjC-PsC,PμCḡP°PḡPμPIC,PëC†PSPëPjPë PḡCḡPμPḡP°CḡP°C,P°PjPë Bḡ” PḡCḡPsC,CḡPiPsPj P°PSC,PëP±C-PsC,PëPePsC,PμCḡP°PḡC-C— (Cḡ CḡPμCḡPμPrPSCḡPsPjCḡ 5Bḡ”10 PrPSC-PI);

- PiPsCḡC,CḡC- C,P° C...CḡPsPSC-C†PSC- CëP»CḡPSPePsPIPs-PePëCëPePsPIC- P·P°C...PIPsCḡCḡPIP°PSPSCḡ Cḡ PSPμPjPsPIP»CḡC,, PḡPsPḡBḡ™ CḡP·P°PSC- P· C-PSC,PSPeCḡPëPeP°C†C-C”Cḡ P°P±Ps PrPëCḡP±P°PeC,PμCḡC-PsP·PsPj PePëCëPμC†PSPëPeCḡ C,P° PrPëCḡPIC-C,P°PjC-PSPsP·PsPj: PiPsCḡC,CḡC- Bḡ” 5Bḡ”7 PrPSC-PI, C...CḡPsPSC-C†PSC- Bḡ” PrPs 30 PrPSC-PI.

***PμPμCḡPμPrPsP·CḡPIP°PSPSCḡ.***

PμCḡPs PIPëPḡP°PrPePë PḡPμCḡPμPrPsP·CḡPIP°PSPSCḡ PSPμ PḡPsPIC-PrPsPjP»CḡP»PsCḡCḡ.

***PμPsP±C-C†PSC- CḡPμP°PeC†C-C—.***

$$\text{P}\text{C}\text{P}\text{sP}\pm \text{C}\text{rPSP}\ddot{\text{e}}\text{P}\text{ePSCrC},\ddot{\text{P}}\text{e} \text{P}\cdot\text{P}^\circ\text{P}\pm \text{C}\text{H}\text{C}\text{r}\text{P}\text{rPSP}_{\mu}\text{PSPSC}\Pi \text{C}\text{r}\text{C}\text{r}\text{C}\text{r}\text{P}\ddot{\text{i}}\text{P}_{\mu}\text{PSP}\cdot\text{C}-\text{C}-, \text{PSP}_{\mu} \text{C}\text{r}\text{P}\gg\text{C}-\text{P}\text{r}$$

PIC-PrPeCḡPëPIP°C,Pë C,,P»P°PePsPSC P·P°P·PrP°P»PμPiC-PrCH.

**PJPiP°PePsPIPeP°.**

B,, - 5: PīPs 5 PjP» Cr C,,P»P°PePsPSC-; PīPs 5 C,,P»P°PePsPSC-PI, P·Bḡ™C”PrPSP°PSPëC... PjC-P¶ CḡPsP±PsCḡ PīPsP»C-PμC,PëP»PμPSPsPIPsCḡ PīPμCḡPμPjPëC±PePsCḡ, Cr PeP°CḡPμC,C- PI PeP°CḡC,PSPSPSC-PNë PePsCḡPsP±C†C-.

B,, - 10; B,, - 20 (10 × 2): PīPs 5 PjP» Cr C,,P»P°PePsPSC-; PīPs 10 C,,P»P°PePsPSC-PI, P·Bḡ™C”PrPSP°PSPëC... PjC-P¶ CḡPsP±PsCḡ PīPsP»C-PμC,PëP»PμPSPsPIPsCḡ PīPμCḡPμPjPëC±PePsCḡ, Cr PeP°CḡPμC,C-;B PīPs 1 P°P±Ps 2 PeP°CḡPμC,Pë PI PeP°CḡC,PSPSPSC-PNë PePsCḡPsP±C†C-.

**PḡP°C,PμPiPsCḡC-Cḡ PIC-PrPīCrCḡPeCr.** P’PμP· CḡPμC†PμPīC,P°.

**P’PëCḡPsP±PSPëPe.**

PḡPīPμP»P»P° PḡPμP»CḡPePμP° P†C,P°P»C- Pḡ.Cḡ.P».

**PḡC-CḡC†PμP·PSP°C...PsPrP¶PμPSPSCḡ PIPëCḡPsP±PSPëPeP° C,P° PNëPsPiPs P°PrCḡPμCḡP° PjC-CḡC†Cḡ PīCḡPsPIP°PrP¶PμPSPSCḡ PrC-CḡP»CHPSPsCḡC,C-.**

P’CHCḡP»Pμ P·CrCḡPsPīP°, 11 Bḡ“ 21040 PḡCḡC-PrP¶CHPs (VA), P†C,P°P»C-Cḡ.

**P—P°CḡPIPSPëPe.**

PḡPḡP’ B«PḡPīPμP»P»P° PḡPμP»CḡPePμP° PJPëCḡP°C—PSP°B», PJPëCḡP°C—PSP°.

**PḡC-CḡC†PμP·PSP°C...PsPrP¶PμPSPSCḡ P·P°CḡPIPSPëPeP° C,P° PNëPsPiPs P°PrCḡPμCḡP° PjC-CḡC†Cḡ PīCḡPsPIP°PrP¶PμPSPSCḡ PrC-CḡP»CHPSPsCḡC,C-.**

PJPëCḡP°C—PSP°, 01033, Pj. PḡPëC—PI, PICḡP». P-PëP»CḡPSCḡCHPeP°, 48-50Pḡ.