



C-PjC-C,CrC" PePëCëPePsPIPµ CÍPµCĤPµPrPsPIPëC%oPµ (CÍPsP»CHPsPIPëPNë CĤPsP·C±PëPS P¶PsPIC±C- C,P° PïP°PSPeCĤPµP°C,PëPSCr BĤ" pH 8), CÍPïPsCĤPë *Bacillus clausii* PïCĤPsPrPµPjPsPSCÍC,CĤCÍPIP°P»Pë P·PrP°C,PSC-CÍC,CĤ CĤPsP·PjPSPSP¶CÍPIP°C,PëCÍCĬ PïPsCĤC-PIPSCĬPSPs P· PïPsC±P°C,PePsPIPSCĤ PeC-P»CHPeC-CÍC,CĤ PI CÍC,P°C,PëCÍC,PëC±PSPs P·PSP°C±CÍC%oPëPNë CÍPïPsCÍC-P± (PIC-Pr 10<sup>9</sup> PrPs 10<sup>12</sup> PePsP»PsPSC-C"CrC,PIPSCĤPIP°P»CHPSPëC... PsPrPëPSPëC±CH (PĤPjPh)), PïPsC±PëPSP°CĤC±Pë P· 240 C...PIPëP»PëPSPë PïC-CÍP»CĬ C-PSPeCÍP±P°C±C-—. PJ PrPsCÍP»C-PrP¶PµPSPSC-, CĬPePµ PïCĤPsPIPPrPëP»PsCÍCĬ P·P° CÍC±P°CÍC,CĤ 20 PsCÍC-P±, P±CÍP»Ps PIC-PrP·PSP°C±PµPSPs, C%oPs Cr P»CĤPrPëPSPë CÍPïPsCĤPë *Bacillus clausii* PïPsCÍC,C-PNëPSPs P¶PëPICrC,CĤ Cr PePëCëPµC±PSPëPeCÍ PNë PjPsP¶CÍC,CĤ P±CÍC,Pë PIPëCĬPIP»PµPSC- PI PeP°P»C- PïCĤPsC,CĬPïPsPj PïPµCĤC-PsPrCÍ PrPs 12 PrPSC-PI PïC-CÍP»CĬ PsPrPSPSCĤP°P·PsPIPsiPs PïPµCĤPsCĤP°P»CHPSPsPiPs PïCĤPëPNëPsPjCr.

P—P°PIPrCĬPePë PrC-C— *Bacillus clausii* PïCĤPµPïP°CĤP°C, PIC-PrPSPsPIP»CĤC" PePëCëPePsPICr PjC-PeCĤPsC,,P»PsCĤCÍ, P·PjC-PSPµPSCr Cr CĤPµP·CÍP»CHC,P°C,C- C,PµCĤP°PïC-— P»C-PeP°CĤCÍCHPePëPjPë P·P°CÍPsP±P°PjPë, C%oPs PïCĤPëP·PIPPrCĬC,CĤ PrPs PrPëCÍP±P°PeC,PµCĤC-PsP·CÍ (C,P°PePsP¶ PIC-PrPsPjPsPiPs CĬPe PrPëCÍP±C-PsP·), CĬPePëPNë C,P°PePsP¶ PjPsP¶Pµ P±CÍC,Pë PïPsPïBĤ™ CĬP·P°PSPëPNë P·C- CëP»CÍPSPePsPIP- PePëCëPePsPIPëPjPë CÍPëPjPïC,PsPjP°PjPë, C,P°PePëPjPë CĬPe PrC-P°CĤPµCĬ, P±C-P»CH Cr P¶PëPIPSC,C- C,P° PjPµC,PµPsCĤPëP·Pj (P·PrCÍC,C,CĬ PePëCëPµC±PSPëPeCÍ). PĤCĤC-Pj C,PsPiPs, P·P°PIPrCĬPePë P·PrP°C,PSPsCÍC,C- *Bacillus clausii* CÍPëPSC,PµP·CÍPIP°C,Pë CĤC-P·PSC- PIC-C,P°PjC-PSPë, PsCÍPsP±P»PëPIPs PïCĤCÍPïPë P', PïCĤPµPïP°CĤP°C, CÍPïCĤPëCĬC" PePsCĤPµPeC±C-— PrPëCÍPIC-C,P°PjC-PSPsP·CÍ, CÍPïCĤPëC±PëPSPµPSPsPiPs P·P°CÍC,PsCÍCÍPIP°PSPSCĬPj P°PSC,PëP±C-PsC,PëPeC-PI P°P±Ps C...C-PjC-PsC,PµCĤP°PïPµPIC,PëC±PSPëC... PïCĤPµPïP°CĤP°C,C-PI. P—P°PIPrCĬPePë PjPµC,P°P±PsP»C-C±PSC-PNë P°PeC,PëPIPSPsCÍC,C- *Bacillus clausii* P·P°CÍC,PsCÍCÍPIP°PSPSCĬ PïCĤPµPïP°CĤP°C,CÍ PrP°C" P·PjPsPiCÍ PrPsCÍCĬPiC,Pë PSPµCÍPïPµC±PëC,,C-C±PSPsPiPs P°PSC,PëPiPµPSPSPsPiPs C,P° P°PSC,PëC,PsPeCÍPëC±PSPsPiPs PµC,,PµPeC,CÍ.

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 CÍPïPsCĤPë *Bacillus clausii* PïCĤPsC...PsPrCĬC,CĤB PSPµCÍCëPePsPrP¶PµPSPëPjPë PeCĤC-P·CH P±P°CĤBĤ™ C" CĤ CëP»CÍPSPePsPIPsiPs CÍPsPeCÍ PI PePëCëPµC±PSPëPNë C,CĤP°PeC,, PrPµ PIPsPSPë PïPµCĤPµC,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°PSPPrPsPjC-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> PαPsCĤC,Pµ PïCĤPsPrPµPjPsPSCÍC,CĤCÍPIP°PI P·PSPëP¶PµPSPSCĬ C,CĤPëPIP°P»PsCÍC,C- PiPsCÍC,CĤPsC— PrC-P°CĤPµC— Cr PrC-C,PµPNë PIC-PePsPj PIC-Pr 6 PjC-CÍCĬC±C-PI.

P—P° CÍPjPsPIPë PïCĤPëPNëPsPjCr PïC-Pr C±P°CÍ P»C-PeCÍPIP°PSPSCĬ P°PSC,PëP±C-PsC,PëPeP°PjPë C,P° PïCĤPsC,CĬPiPsPj PSP°CÍC,CÍPïPSPëC... 7BĤ"10 PrPSC-PI P·PSC,PµCĤPsP¶PµCĤPjC-PSP°<sup>B</sup> PαPsCĤC,Pµ PïCĤPsPrPµPjPsPSCÍC,CĤCÍPIP°P»P° P·PSPëP¶PµPSPSCĬ C±P°CÍC,PsC,Pë P±PsP»CĤ PI P¶PëPIPSC,C- C,P° PrC-P°CĤPµC—, PïPsPïBĤ™ CĬP·P°PSPëC... C-P· P·P°CÍC,PsCÍCÍPIP°PSPSCĬPj P°PSC,PëP±C-PsC,PëPeC-PI.

P"Ps PïCĤPsCÍPïPµPeC,PëPIPSPsPiPs PsP±CÍPµCĤPIP°C±C-PNëPSPsPiPs P±P°PiP°C,PsC±PµPSC,CĤPsPIPsiPs PrPsCÍP»C-PrP¶PµPSPSCĬ P±CÍP»Ps P·P°P»CÍC±PµPSPs 261 PïP°C±C-C" PSC,P° PrP»CĬ PsC±C-PSPePë P·P°CÍC,PsCÍCÍPIP°PSPSCĬ PïCĤPsP±C-PsC,PëPeP° *Bacillus clausii* PI CĤPµP°P»CHPSPëC... CÍPjPsPIP°C... PïCĤPë C,P°PePëC... CÍPëPjPïC,PsPjP°C..., CĬPe PrC-P°CĤPµCĬ, P±C-P»CH Cr P¶PëPIPSC,C-,

P·PrCfC,C,Cf P¶PëPIPsC,P°, PjPµC,PµPsCfPëP·Pj, P·P°PìPsCf C,P°  
P°P±PrPsPjC-PSP°P»CHbPSPëPµ PrPëCfPePsPjC,,PsCfC,, PhCtC-PSPeP°  
PìCfPsPIPsPrPëP»P°CfCf PSP° PsCfPSPsPIC- P°PSPePµC,CfPIP°PSPSCf PìP°CtC-C°PSC,C-PI,  
CfPePµ P·PrC-PNëCfPSCfPIP°P»Pë C,,P°CfPjP°CtPµPIC,Pë PìPµCfPµPr PìPsCtP°C,PePsPj  
PìCfPëPµPsPjCf PìCfPµPìP°CfP°C,Cf C,P° CtPµCfPµP· 30 PrPSC-PI PìC-CfP»Cf PNëPsPìPs  
P·P°CfC,PsCfCfPIP°PSPSCf.

PµP°CtC-C°PSC,Pë PìPsPIC-PrPsPjPëP»Pë, C%Ps PìCfPëPµPjP°P»Pë PìCfPµPìP°CfP°C,  
PìPµCfPµPIP°P¶PSPs PrP»Cf P»C-PeCfPIP°PSPSCf PrC-P°CfPµC— (56,7 %  
PìP°CtC-C°PSC,C-PI); P°P±PrPsPjC-PSP°P»CHbPSPsPìPs P±PsP»Cf (13,41 %) C,P° P·PrCfC,C,Cf  
P¶PëPIPsC,P° (12,64 %).

PÿPµCfPµPrPSCf C,CfPëPIP°P»C-CfC,Ch P»C-PeCfPIP°PSPSCf CfC,P°PSPsPIPëP»P° 7,1  
PrPSCf. PµPsPeCfP°C%PµPSPSCf CfPëPjPìC,PsPjC-PI PìP°CtC-C°PSC,Pë  
PIC-PrP·PSP°CtP°P»Pë PI CfPµCfPµPrPSCfPsPjCf CtPµCfPµP· C,CfPë PrPSC-  
P·P°CfC,PsCfCfPIP°PSPSCf P»C-PeP°CfCfChPePsPìPs P·P°CfPsP±Cf. PµC-CfP»Cf  
P·P°PIPµCfCèPµPSPSCf P»C-PeCfPIP°PSPSCf 95 % PìP°CtC-C°PSC,C-PI PIC-PrP·PSP°CtPëP»Pë  
P·PjPµPSCèPµPSPSCf PrC-P°CfPµC—, P° 97 % бf “ PìPsCfP»P°P±P»PµPSPSCf  
P°P±PrPsPjC-PSP°P»CHbPSPsPìPs P±PsP»Cf.

P—P°P·PSP°CtPµPSC- PSPëP¶CtPµ 2 PsCfPSPsPIPSC- PIP»P°CfC,PëPIPsCfC,C- *Bacillus clausii*  
CfPìCfPëCfCfC,Cf PIC-PrPSPsPIP»PµPSPSCf PePëCèPePsPIPsC—  
P±P°PeC,PµCfC-P°P»CHbPSPsC— C,,P»PsCfPë.

*PtPSPiC-P±CzPIP°PSPSCf P·CfPsCfC,P°PSPSCf PìP°C,PsPìPµPSPSPëC... P±P°PeC,PµCfC-PNë*

PÿCfChbPsPjP° PNëPjPsPIC-CfPSPëPjPë PjPµC...P°PSC-P·PjP°PjPë PrC-C— *B. clausii* C°:  
PePsP»PsPSC-P·P°CtC-Cf PIC-P»CHbPSPëC... PµPePsP»PsPìC-CtPSPëC... PSC-Cè, C%Ps  
P·P°PìPsP±C-PìP°C° P·CfPsCfC,P°PSPSCf C-PSCèPëC... PjC-PeCfPsPsCfPìP°PSC-P·PjC-PI;  
PePsPSPeCfCfPµPSCtC-Cf P·P° P·Pìb<sup>tm</sup> CfP·PsPe P· PµPìC-C,PµP»C-P°P»CHbPSPëPjPë  
PeP»C-C,PëPSP°PjPë, C%Ps PsCfPsP±P»PëPIPs CfC,PsCfCfC°C,ChCfCf CfPìPsCf Cf  
PìPsCtP°C,PePsPIC-PNë C- PìCfPsPjC-P¶PSC-PNë C,,P°P·P°C... PìPµCfPjC-PSP°CtC-C—;  
PIPëCfPsP±P»PµPSPSCf P°PSC,PëP±C-PsC,PëPeC-PI C-/P°P±Ps C,,PµCfPjPµPSC,C-PI, CfPeC-  
CfPµPeCfPµC,CfCfC,ChCfCf PI PePëCèPePsPIPsPjCf CfPµCfPµPrPsPIPëC%C-. Pj  
PrPsCfP»C-PrP¶PµPSPSC- *in vitro* CfPìPsCfPë *Bacillus clausii*  
PìCfPsPrPµPjPsPSCfC,CfCfPIP°P»Pë PIPëCfPsP±P»PµPSPSCf P±P°PeC,PµCfC-PsCtPëPSC-PI  
C- P°PSC,PëP±C-PsC,PëPeC-PI, C,P°PePëC... CfPe PeP»P°CfP·PëPS, P·  
P°PSC,P°PìPsPSC-CfC,PëCtPSPsCf P°PeC,PëPIPSC-CfC,Cf PìCfPsC,Pë  
PìCfP°PjPìPsP·PëC,PëPIPSPëC... P±P°PeC,PµCfC-PNë *Staphylococcus aureus, Clostridium difficile,*  
*Enterococcus faecium.*

*PtPjCzPSPsPjPsPrCzP»CfCfCtP° P°PeC,PëPIPSC-CfC,Ch*

PÿPìPsCfPë *Bacillus clausii*, P·P°CfC,PsCfPsPIP°PSC- PìPµCfPsCfP°P»CHbPSPs, Cf  
PjPsPrPµP»CfC... *in vitro* C,P° *in vivo* PSP° PjPëCèP°C... PìCfPsPrPµPjPsPSCfC,CfCfPIP°P»Pë  
CfC,PëPjCfP»CfPIP°PSPSCf PIPëCfPsP±P»PµPSPSCf C-PSC,PµCfC,,PµCfPsPSCf-PìP°PjPjP°  
C,P° P·P±C-P»CHbCèPµPSPSCf PìCfPsP»C-C,,PµCfP°CtC-C— CD4 T·P»C-PjC,,PsCtPëC,C-PI.

*PαP°CfPjP°PePsPeC-PSPµC,PëPeP°.*

PµCḡPµPīP°CḡP°C, PSPµ PIP·P°C" PjPsPrC-C" P· C,P°PePēPjPē P°PSC,PēP±C-PsC,PēPeP°PjPē:  
 PīPµPSC-C†PēP»C-PS PīCḡPē P·P°CḡC,PscḡCḡPIP°PSPSC- PSPµ PI PePsPjP±C-PSP°C†C-C— P·  
 C-PSPIc-P±C-C,PscḡP°PjPē P±PµC,P°-P»P°PeC,P°PjP°P·Pē, C†PµC,,P°P»PscḡPīPsCḡPēPSPē  
 (C†P°CḡC,PePsPIP° CḡPµP·PēCḡC,PµPSC,PSC-CḡC,CH Cḡ P±C-P»CHCεPsCḡC,C-  
 PIPēPīP°PrPeC-PI), C,PµC,CḡP°C†PēPeP»C-PSPē, PjP°PeCḡPsP»C-PrPē,  
 P°PjC-PSPsPiP»C-PePsP·PēPrPē (P·P° PIPēPSCḡC,PePsPj PīPµPSC,P°PjC-C†PēPSCḡ C-  
 P°PjC-PeP°C†PēPSCḡ), C...P»PscḡP°PjC,,PµPSC-PePsP», C,C-P°PjC,,PµPSC-PePsP»,  
 P»C-PSPePsPjC-C†PēPS, PeP»C-PSPrP°PjC-C†PēPS, C-P·PsPSC-P°P·PēPr,  
 C†PēPeP»PscḡPµCḡPēPS, PSPsPIPsP±C-PsC†PēPS, CḡPēC,,P°PjPīC-C†PēPS,  
 PSP°P»C-PrPēPeCḡPsPIP° PePēCḡP»PsC,P° C- PīC-PīPµPjC-PrPsPIP° PePēCḡP»PsC,P°  
 (PīCḡPsPjC-P¶PSP° CḡPµP·PēCḡC,PµPSC,PSC-CḡC,CH), PjPµC,CḡPsPSC-PrP°P·PsP».

**PḡP»C-PSC-C†PSC- C...P°CḡP°PeC,PµCḡPēCḡC,PēPePē.**

**PµPsPeP°P·P°PSPSCḡ.**

P»C-PeCḡPIP°PSPSCḡ C,P° PīCḡPsC,,C-P»P°PeC,PēPeP° PrPēCḡP±P°PeC,PµCḡC-PsP·Cḡ  
 PePēCεPµC†PSPēPeCḡ C,P° PīPsPIBḡ™ CḡP·P°PSPsPiPs P· PSPēPj PµPSPPrPsPīPµPSPSPsPiPs  
 PrPēCḡPIC-C,P°PjC-PSPsP·Cḡ.

P"PsPīPsPjC-P¶PSP° C,PµCḡP°PīC-Cḡ, CḡPīCḡCḡPjPsPIP°PSP° PSP° PIC-PrPSPsPiP»PµPSPSCḡ  
 PSPsCḡPjP°P»CHPSPsC— PjC-PeCḡPsC,,P»PscḡPē PePēCεPµC†PSPēPeCḡ, C%oPs  
 PīPsCḡCḡCεCḡC"C,CHCḡCḡ PīC-Pr C†P°Cḡ P»C-PeCḡPIP°PSPSCḡ P°PSC,PēP±C-PsC,PēPeP°PjPē  
 P°P±Ps C...C-PjC-PsC,PµCḡP°PīPµPIC,PēC†PSPēPjPē PīCḡPµPīP°CḡP°C,P°PjPē.

P"PscḡC,CḡC- C,P° C...CḡPsPSC-C†PSC- CεP»CḡPSPePsPIPs-PePēCεPePsPIC-  
 P·P°C...PIPsCḡCḡPIP°PSPSCḡ Cḡ PSPµPjPsPIP»CḡC,, PīPsPIBḡ™ CḡP·P°PSC- P·  
 C-PSC,PseCḡPēPeP°C†C-C"CH P°P±Ps PrPēCḡP±P°PeC,PµCḡC-PsP·PsPj PePēCεPµC†PSPēPeCḡ  
 C,P° PrPēCḡPIC-C,P°PjC-PSPsP·PsPj.

**PµCḡPsC,PēPīPsPeP°P·P°PSPSCḡ.**

P"C-PīPµCḡC†CḡC,P»PēPIC-CḡC,CH PrPs PrC-CḡC†PsC— CḡPµC†PsPIPēPSPē P°P±Ps PrPs  
 P±CḡPrCH-CḡPεPsC— P· PrPsPīPsPjC-P¶PSPēC... CḡPµC†PsPIPēPS PīCḡPµPīP°CḡP°C,Cḡ.

**P°P·P°C" PjPsPrC-Cḡ P· C-PSCεPēPjPē P»C-PeP°CḡCḡCHPePēPjPē P·P°CḡPsP±P°PjPē C,P°  
C-PSCεC- PIPēPrPē PIP·P°C" PjPsPrC-PNḡ.**

P"PsCḡP»C-PrP¶PµPSCḡ PIP·P°C" PjPsPrC-C— PSPµ PīCḡPsPIPsPrPēP»PscḡCḡ.

**PḡCḡPsP±P»PēPIPsCḡC,C- P·P°CḡC,PscḡCḡPIP°PSPSCḡ.**

Pj C,,P»P°PePsPSP°C... P· PīCḡPµPīP°CḡP°C,Pspj P·PSC,PµCḡPsP¶PµCḡPjC-PSP° PḡPsCḡC,Pµ  
 PjPsP¶P»PēPIP° PSP°CḡPIPsC-CḡC,CH PIPēPrPēPjPēC... C†P°CḡC,Psc†PsPe, C%oPs  
 CḡC,PIPsCḡCḡCḡC,CHCḡCḡ PIPSP°CḡP»C-PrPsPe P°PīCḡPµPīP°C†C-C— CḡPīPsCḡ Bacillus

clausii C,P° PSPµ CÍPIC-PrC±P°C,CH PiCḡPs C,Pµ, C%Ps PiCḡPµPiP°CḡP°C, P·P°P·PSP°PI P±CfPrCH-CIIPePëC... P·PjC-PS.

PµPµCḡPµPr P·P°CÍC,PsCÍCfPIP°PSPSCII Pj C,,P»P°PePsPS CÍP»C-Pr CÍC,CḡCfCÍPëC,Pë.

PµCḡPµPiP°CḡP°C, PjP°C" PIPëCÍPsPePëPµ CÍC,CfPiC-PSCH PiPµC,PµCḡPsP»PsPiC-C±PSPsC— CḡPµP·PëCÍC,PµPSC,PSPsCÍC,C- PrPs P°PSC,PëP±C-PsC,PëPeC-PI, C%Ps PrP°C" P·PjPsPiCf P·P°CÍC,PsCÍPsPICfPIP°C,Pë PµPsPiPs CIIPe PrP»CI PiCḡPsC,,C-P»P°PeC,PëPePë P·PjC-PSPë PjC-PeCḡPsC,,P»PsCḡPë PePëCëPµC±PSPëPeCf, CÍPiCḡPëC±PëPSPµPSPsC— CÍPµP»PµPeC,PëPIPSsCḡ PrC-C"ḡ P°PSC,PëP±C-PsC,PëPeC-PI (PsCÍPsP±P»PëPIPs P°PSC,PëP±C-PsC,PëPeC-PI CëPëCḡPsPePsPiPs CÍPiPµPeC,CḡP° PrC-C—), C,P°Pe C- PrP»CI PIC-PrPSPsPIP»PµPSPSCII PIP¶Pµ PiPsCḡCfCëPµPSPsPiPs P±P°P»P°PSCÍCf PjC-PeCḡPsC,,P»PsCḡPë PePëCëPµC±PSPëPeCf.

PiPeC%Ps PiCḡPµPiP°CḡP°C, PiCḡPëP·PSP°C±P°C,Pë PsPrPSPsC±P°CÍPSPs P· P°PSC,PëP±C-PsC,PëPeP°PjPë, PµPsPiPs CÍP»C-Pr P·P°CÍC,PsCÍPsPICfPIP°C,Pë PjC-P¶ PrPIPsPjP° PiCḡPëPµPsPjP°PjPë P°PSC,PëP±C-PsC,PëPeP°.

PiPµPµ P»C-PeP°CḡCÍCHPePëPµ P·P°CÍC-P± PiCḡPëP·PSP°C±PµPSPëPµ PIPëPeP»CHC±PSPs PrP»CI PiPµCḡPsCḡP°P»CHPSPsPiPs P·P°CÍC,PsCÍCfPIP°PSPSCII. P—P°P±PsCḡPsPSCII C,CHCÍCI PIPsPrPëC,Pë PiCḡPµPiP°CḡP°C, C-PSBḡ™ C"PeC±C-PµPSPëPj P°P±Ps P±CfPrCH-CIIPePëPj C-PSCëPëPj CëP»CI C...PsPj. PkPµPePsCḡPµPeC,PSPµ P·P°CÍC,PsCÍCfPIP°PSPSCII C±CHPsPiPs P»C-PeP°CḡCÍCHPePsPiPs P·P°CÍPsP±Cf PiCḡPëP·PIPsPrPëP»Ps PrPs PIPëPSPëPePSPµPSPSCII C,CIIP¶PePëC... P°PSP°C,,C-P»P°PeC,PëC±PSPëC... CḡPµP°PeC±C-Pµ, C,P°PePëC... CIIPe P°PSP°C,,C-P»P°PeC,PëC±PSPëPµ CëPsPe.

P°PeC,PµCḡC-C" PjC-CI C,P° CÍPµPiCÍPëCÍ

PµPsCÍC,PjP°CḡPePµC,PëPSPiPsPIC- PIPëPiP°PrPePë P±P°PeC,PµCḡC-C" PjC-C—, CÍPµPiC,PëC±PµPjC-C— C,P° CÍPµPiCÍPëCÍCf P±CfP»Pë PIPëCIIP»PµPSC- Cf PiP°C±C-C" PSC,C-PI P· PsCÍP»P°P±P»PµPSPëPj C-PjCfPSC-C,PµC,PsPj P°P±Ps Cf C,CIIP¶PePsC...PIPsCḡPëC... PiP°C±C-C" PSC,C-PI, P° C,P°PePsP¶ Cf PSPµPrPsPSPsCëPµPSPëC... PrC-C,PµPµ. Pj PrPµCIIPePëC... C...PIPsCḡPëC... Cf C,CIIP¶PePsPjCf CÍC,P°PSC- CḡPµP·CfP»CHC,P°C, P±CfPI P»PµC,P°P»CHPSPëPj. PiPëPj PiCḡCfPiP°Pj PiP°C±C-C" PSC,C-PI CÍP»C-Pr CfPSPëPeP°C,Pë P·P°CÍC,PsCÍCfPIP°PSPSCII PiCḡPµPiP°CḡP°C,Cf P·PSC,PµCḡPsP¶PµCḡPjC-PSP°<sup>B</sup> PµPsCḡC,Pµ (PrPëPI. CḡPsP·PrC-P» B«PµPsP±C-C±PSC- CḡPµP°PeC±C-C—B»).

P—P°CÍC,PsCÍCfPIP°PSPSCII C± PiPµCḡC-PsPr PIP°PiC-C,PSPsCÍC,C- P°P±Ps PiPsPrCfPIP°PSPSCII PiCḡCfPrPrCḡ.

P°PiC-C,PSC-CÍC,CH. P"PsCÍC,CfPiPSC- PrP°PSC- C%PsPrPs P·P°CÍC,PsCÍCfPIP°PSPSCII PiCḡPµPiP°CḡP°C,Cf P·PSC,PµCḡPsP¶PµCḡPjC-PSP°<sup>B</sup> PµPsCḡC,Pµ PIP°PiC-C,PSPëPj P¶C-PSPeP°Pj, C" PsP±PjPµP¶PµPSPëPjPë, C,PsPjCf PSPµ PjPsP¶PSP° P·CḡPsP±PëC,Pë PIPëCÍPSPsPiPsPe C%PsPrPs P±PµP·PiPµPePë P·P°CÍC,PsCÍCfPIP°PSPSCII PiCḡPµPiP°CḡP°C,Cf PiC-Pr C±P°CÍ PIP°PiC-C,PSPsCÍC,C-.

PµCḡPµPiP°CḡP°C, P·PSC,PµCḡPsP¶PµCḡPjC-PSP°<sup>B</sup> PµPsCḡC,Pµ PjPsP¶PSP° P·P°CÍC,PsCÍPsPICfPIP°C,Pë PiC-Pr C±P°CÍ PIP°PiC-C,PSPsCÍC,C- P»PëCëPµ Cf CḡP°P·C-,

PePsP»Pë PïPsC,PµPSC†C-PMεPSP° PePsCḤPëCíC,CH PrP»CΠ PIP°PiC-C,PSPsC—  
PïPµCḤPµPIPëC%oCfC” PïPsC,PµPSC†C-PMεPSC- CḤPëP·PëPePë, PIPeP»CḤC†PSPs P·  
CḤPëP·PëPeP°PjPë PrP»CΠ PïP»PsPrP°.

*PµPµCḤC-PsPr PïPsPrC¿PIP°PSPSCΠ PiCḤC¿PrPrCḤ. P”PsCíC,CfPïPSC- PrP°PSC- C%oPsPrPs  
P·P°CíC,PsCíCfPIP°PSPSCΠ PiCḤPµPïP°CḤP°C,Cf B P·PSC,PµCḤPsP¶PµCḤPjC-PSP°B®  
PαPsCḤC,Pµ PI PïPµCḤC-PsPr PïPsPrCfPIP°PSPSCΠ PiCḤCfPrPrCḤ, P° CíP°PjPµ C%oPsPrPs  
PSP°CΠIPSPsCíC,C- PiCḤPµPïP°CḤP°C,Cf Cf PiCḤCfPrPSPsPjCf PjPsP»PsC†C- C,P°  
PIPïP»PëPICf PSP° PSPµPjPsPIP»CΠ, C” PsP±PjPµP¶PµPSPëPjPë, C,PsPjCf PSPµ PjPsP¶PSP°  
P·CḤPsP±PëC,Pë PIPëCíPSPsPIPePë C%oPsPrPs P±PµP·PïPµPePë P·P°CíC,PsCíCfPIP°PSPSCΠ  
PïCḤPµPïP°CḤP°C,Cf PI PïPµCḤC-PsPr PïPsPrCfPIP°PSPSCΠ PiCḤCfPrPrCḤ.*

*PµCḤPµPïP°CḤP°C, P·PSC,PµCḤPsP¶PµCḤPjC-PSP°B® PαPsCḤC,Pµ PjPsP¶PSP°  
P·P°CíC,PsCíCfPICfPIP°C,Pë PI PïPµCḤC-PsPr PïPsPrCfPIP°PSPSCΠ PiCḤCfPrPrCḤ, P»PëCεPµ  
CΠPeC%oPs PïPsC,PµPSC†C-PMεPSP° PePsCḤPëCíC,CH PrP»CΠ PjP°C,PµCḤC-  
PïPµCḤPµPIPëC%oCfC” PïPsC,PµPSC†C-PMεPSC- CḤPëP·PëPePë, PIPeP»CḤC†PSPs P·  
CḤPëP·PëPeP°PjPë PrP»CΠ PrPëC,PëPSPë, CΠPeP° PïPµCḤPµP±CfPIP°C” PSP° PiCḤCfPrPSPsPjCf  
PIPëPiPsPrPsPICfPIP°PSPSC-.*

*PαPµCḤC,PëP»CḤPSC-CíC,CH. P”P°PSPëC... C%oPsPrPs PIPïP»PëPICf  
P»C-PeP°CḤCíCḤPePsPïPs P·P°CíPsP±Cf P·PSC,PµCḤPsP¶PµCḤPjC-PSP°B® PαPsCḤC,Pµ PSP°  
C,,PµCḤC,PëP»CḤPSC-CíC,CH P»CḤPrPëPSPë PSPµPjP°C”.*

*P—PrP°C,PSC-CíC,CH PIPïP»PëPIP°C,Pë PSP° CεPIPëPrPeC-CíC,CH CḤPµP°PeC†C-C— PïCḤPë  
PePµCḤC¿PIP°PSPSC- P°PIC,PsC,CḤP°PSCíPïPsCḤC,PsPj P°P±Ps C-PSCεPëPjPë  
PjPµC...P°PSC-P·PjP°PjPë.B B B*

*P·PSC,PµCḤPsP¶PµCḤPjC-PSP°B® PαPsCḤC,Pµ PSPµ PIPïP»PëPIP°C” PSP° P·PrP°C,PSC-CíC,CH  
PePµCḤCfPIP°C,Pë C,CḤP°PSCíPïPsCḤC,PSPëPjPë P·P°CíPsP±P°PjPë C,P° PïCḤP°C†CḤPIP°C,Pë  
P·C-PSCεPëPjPë PjPµC...P°PSC-P·PjP°PjPë.*

***PÿPïPsCíC-P± P·P°CíC,PsCíC¿PIP°PSPSCΠ C,P° PrPsP·Pë.***

*P’PjC-CíC, C,,P»P°PePsPSP° PïCḤPëPµPjP°CḤC,CH P±PµP· CḤPsP·PIPµPrPµPSPSCΠ P°P±Ps  
CḤPsP·PIPsPrCΠC,CH Cf PIPsPrC- C†Pë C-PSCεPëC... PSP°PïPsCΠC... (PSP°PïCḤPëPeP»P°Pr Cf  
PjPsP»PsC†C-, C†P°C— P°P±Ps PI P°PïPµP»CḤCíPëPSPsPIPsPjCf CíPsPeCf). PjPµPµ  
P»C-PeP°CḤCíCḤPePëPµ P·P°CíC-P± PïCḤPëP·PSP°C†PµPSPëPµ P»PëCεPµ PrP»CΠ  
PïPµCḤPsCḤP°P»CḤPSPsPïPs P·P°CíC,PsCíCfPIP°PSPSCΠ. PkPµ PIPIPsPrPëC,Pë  
PïP°CḤPµPSC,PµCḤP°P»CḤPSPs C- PSPµ P·P°CíC,PsCíCfPICfPIP°C,Pë C-PSCεPëPj  
CíPïPsCíPsP±PsPj.*

*P”PsP·P° PrP»CΠ PrPsCḤPsCíP»PëC... BḤ” 5 PjP» (1 C,,P»P°PePsPS) PSP° PrPsP±Cf.*

*P”C-C,Pë. PµCḤPµPïP°CḤP°C, PjPsP¶PSP° P·P°CíC,PsCíCfPICfPIP°C,Pë PrC-C,CΠPj PIC-PePsPj  
PIC-Pr 28 PrPSC-PI. PµCḤPµPïP°CḤP°C, P·P°CíC,PsCíCfPICfCḤC,CH PSPµPjPsPIP»CΠC,P°Pj C-  
PrC-C,CΠPj Cf PrPsP·C- 5 PjP» (1 C,,P»P°PePsPS) PSP° PrPsP±Cf.*

*PÿPµCḤPjC-PSB P»C-PeCfPIP°PSPSCΠB PICíC,P°PSPsPIP»CḤC” P»C-PeP°CḤ P·P°P»PµP¶PSPs  
PIC-Pr CíC,P°PSCf PïP°C†C-C”PSC,P° C,P° PïPµCḤPµP±C-PiCf P·P°C...PIPSCḤCḤPIP°PSPSCΠ:*

- P»C-PeCfPIP°PSPSCl C,P° PiCfPsc,,C-P»P°PeC,PëPeP° PrPëCfP±P°PeC,PµCfC-PsP·Cf PePëCëPµC±PSPëPeCf C,P° PìPsPIBf™ CllP·P°PSPsPiPs P· PSPëPj PµPSPPrPsPiPµPSPSPsPiPs PrPëCfPIC-C,P°PjC-PSPsP·Cf Bf“ 5Bf“7 PrPSC-PI;

- PrPsPiPsPjC-P¶PSP° C,PµCfP°PìC-Cll, CÍPìCfCllPjPsPIP°PSP° PSP° PIC-PrPSPsPIP»PµPSPSCll PSPsCfPjP°P»CHPSPsC— PjC-PeCfPsc,,P»PscfPë PePëCëPµC±PSPëPeCf, C°Ps PìPsCfCfCëCfC”C,CHCfCll PìC-Pr C±P°Cf P»C-PeCfPIP°PSPSCll P°PSC,PëP±C-PsC,PëPeP°PjPë P°P±Ps C...C-PjC-PsC,PµCfP°PìPµPIC,PëC±PSPëPjPë PìCfPµPìP°CfP°C,P°PjPë Bf“ PìCfPsc,CllPiPsPj P°PSC,PëP±C-PsC,PëPePsC,PµCfP°PìC-C— (Cf CÍPµCfPµPrPSCfPsPjCf 5Bf“10 PrPSC-PI);

- PiPsCfC,CfC- C,P° C...CfPpsPSC-C±PSC- CëP»CfPSPePsPIPs-PePëCëPePsPIC- P·P°C...PIPscfCfPIP°PSPSCll Cf PSPµPjPsPIP»CllC,, PìPsPIBf™ CllP·P°PSC- P· C-PSC,PsPeCfPëPeP°CfC-C”Cf P°P±Ps PrPëCfP±P°PeC,PµCfC-PsP·PsPj PePëCëPµC±PSPëPeCf C,P° PrPëCfPIC-C,P°PjC-PSPsP·PsPj: PiPsCfC,CfC- Bf“ 5Bf“7 PrPSC-PI, C...CfPpsPSC-C±PSC- Bf“ PrPs 30 PrPSC-PI.B B B B B

**PµPµCfPµPrPsP·CzPIP°PSPSCll.**

PµCfPs PIPëPìP°PrPePë PìPµCfPµPrPsP·CfPIP°PSPSCll PSPµ PìPsPIC-PrPsPjP»CllP»PsCfCll.

**PµPsP±C-C±PSC- CfPµP°PeCfC-C—.**

PµPsP±C-C±PSC- CfPµP°PeCfC-C—, PìPsPIC-PrPsPjP»PµPSPSCll PìCfPs CllPeC- P±CfP»Ps PsC,CfPëPjP°PSPs PìC-Pr C±P°Cf P·P°CfC,PsCfCfPIP°PSPSCll PìCfPµPìP°CfP°C,Cf P·PSC,PµCfPsP¶PµCfPjC-PSP°<sup>B®</sup> P»PsCfC,Pµ, PìPµCfPµCfP°C...PsPIP°PSPs PSPëP¶C±Pµ PIC-PrPìPsPIC-PrPSPs PrPs PeP»P°CfCf CÍPëCfC,PµPj PsCfPìP°PSC-PI C- C±P°CfC,PsC,Pë PIPëPSPëPePSPµPSPSCll: PrCfP¶Pµ C±P°CfC,C- (≥ 1/10); C±P°CfC,C- (≥ 1/100, < 1/10); PSPµC±P°CfC,C- (≥ 1/1000, < 1/100); CfC-PrPeC-CfPSC- (≥ 1/10 000, < 1/1000); PrCfP¶Pµ CfC-PrPeC-CfPSC- (< 1/10 000); C±P°CfC,PsC,P° PSPµPIC-PrPsPjP° (PSPµPjPsP¶P»PëPIPs PsCfC-PSPëC,Pë P·P° PSP°CllPIPSPëPjPë PrP°PSPëPjPë).

*P PsP·P»P°PrPë P· P±PsPeCz CëPeC-CfPë C,P° PìC-PrCëPeC-CfPSPëC... C,PeP°PSPëPS*

PŞP°CfC,PsC,P° PSPµPIC-PrPsPjP°: CfPµP°PeCfC-C— PìC-PìPµCfC±CfC,P»PëPIPsCfC,C-, PI C,PsPjCf C±PëCfP»C- PIPëCfPëPìP°PSPSCll, PeCfPsPìPëPIBf™ CllPSPeP° C,P° P°PSPiC-PsPSPµPICfPsC,PëC±PSPëPnë PSP°P±CfCllPe.

*PfPSC,,PµPeCfC-PnëPSC- C,P° PìP°CfP°P·PëC,P°CfPSC- P·P°C...PIPscfCfPIP°PSPSCll*

PŞP°CfC,PsC,P° PSPµPIC-PrPsPjP°: P±P°PeC,PµCfC-C”PjC-Cll, CÍPµPìC,PëC±PµPjC-Cll C,P° CÍPµPìCfPëCf (Cf PìP°CfC-C”PSC,C-PI P· PsCfP»P°P±P»PµPSPëPj C-PjCfPSC-C,PµC,PsPj P°P±Ps Cf C,CllP¶PePsC...PIPscfPëC... PìP°CfC-C”PSC,C-PI) (PrPëPI. CfPsP·PrC-P» B«PhCfPsP±P»PëPIPsCfC,C- P·P°CfC,PsCfCfPIP°PSPSCllB»).

PµPsPIC-PrPsPjP»PµPSPSCll PìCfPs PìC-PrPsP·CfCfPIP°PSC- PìPsP±C-C±PSC- CfPµP°PeCfC-C—

PμPsPIC-PrPsPjP»PμPSPSCЦ PīCḡPs PīPsP±C-C±PSC- CḡPμP°PeC†C-C— PīC-CḡP»CЦ  
CḡPμC”CḡC,CḡP°C†C-C— P»C-PeP°CḡCḡCḡPePsPiPs P·P°CḡPsP±Cḡ PjP°C” PIP°P¶P»PēPIPμ  
P·PSP°C±PμPSPSCЦ. P|Pμ PrP°C” P·PjPsPiCḡ PīCḡPsPIPsPrPēC,Pē PjPsPSC-C,PSCḡPēPSPi  
CḡPīC-PIPIC-PrPSPSc€PμPSPSCЦ PePsCḡPēCḡC,Cḡ/CḡPēP·PēPe PīCḡPē  
P·P°CḡC,PSCḡCḡPIP°PSPSC- C†CḡPsPiPs P»C-PeP°CḡCḡCḡPePsPiPs P·P°CḡPsP±Cḡ.  
PḡPμPrPēC±PSPēPj C,P° C,,P°CḡPjP°C†PμPIC,PēC±PSPēPj PīCḡP°C†C-PIPSPēPeP°Pj, P°  
C,P°PePsP¶ PīP°C†C-C”PSC,P°Pj P°P±Ps C—C... P·P°PePsPSPSPēPj PīCḡPμPrCḡC,P°PIPSPēPeP°Pj  
CḡP»C-Pr PīPsPIC-PrPsPjP»CЦC,Pē PīCḡPs CḡCḡC- PIPēPīP°PrPēPē PīC-PrPsP·CḡCḡPIP°PSPēC...  
PīPsP±C-C±PSPēC... CḡPμP°PeC†C-PNē C,P° PIC-PrCḡCḡC,PSPScḡC,C-  
PμC,,PμPeC,PēPIPSPScḡC,C- P»C-PeP°CḡCḡCḡPePsPiPs P·P°CḡPsP±Cḡ C±PμCḡPμP·  
PḡPIC,PsPjP°C,PēP·PsPIP°PSCḡ C-PSC,,PSCḡPjP°C†C-PNēPSCḡ CḡPēCḡC,PμPjCḡ P·  
C,,P°CḡPjP°PePsPSP°PiP»CЦPrCḡ P·P° PīPsCḡPēP»P°PSPSCЦPj: <https://aisf.dec.gov.ua>.

B  
B B

**PḡPμCḡPjC-PS PīCḡPēPrP°C,PSPScḡC,C-.** 2 CḡPsPePē.

**PjPjPsPIPē P·P±PμCḡC-PiP°PSPSCЦ.**

P—P±PμCḡC-PiP°C,Pē Cḡ PSPμPrPsCḡC,CḡPīPSPSPjCḡ PrP»CЦ PrC-C,PμPNē PjC-CḡC†C- PīCḡPē  
C,PμPjPīPμCḡP°C,CḡCḡC- PSPēP¶C±Pμ 30 °Pḡ.

P©PsP± CḡPSPēPePSCḡC,Pē P·P°P±CḡCḡPrPSPμPSPSCЦ CḡCḡCḡPīPμPSP·C-C—, PSPμ CḡP»C-Pr  
PIC-PrPeCḡPēPIP°C,Pē C,,P»P°PePsPS P·P°P·PrP°P»PμPiC-PrCḡ.

**PjPīP°PePsPIPēP°.**

B,, - 5: PīPs 5 PjP» Cḡ C,,P»P°PePsPSC-; PīPs 5 C,,P»P°PePsPSC-PI, P·Bḡ™ C”PrPSP°PSPēC... PjC-P¶  
CḡPsP±PsCḡ PīPsP»C-PμC,PēP»PμPSPSPiPsCḡ PīPμCḡPμPjPēC±PePsCḡ, Cḡ PeP°CḡPμC,C- PI  
PeP°CḡC,PSPSPSC-PNē PePsCḡPsP±C†C-.

B,, - 10; B,, - 20 (10 × 2): PīPs 5 PjP» Cḡ C,,P»P°PePsPSC-; PīPs 10 C,,P»P°PePsPSC-PI,  
P·Bḡ™ C”PrPSP°PSPēC... PjC-P¶ CḡPsP±PsCḡ PīPsP»C-PμC,PēP»PμPSPSPiPsCḡ  
PīPμCḡPμPjPēC±PePsCḡ, Cḡ PeP°CḡPμC,C-;B PīPs 1 P°P±Ps 2 PeP°CḡPμC,Pē PI  
PeP°CḡC,PSPSPSC-PNē PePsCḡPsP±C†C-.

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

**P’PēCḡPsP±PSPēPe.**

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

**PḡC-CḡC†PμP·PSP°C...PsPrP¶PμPSPSCЦ PIPēCḡPsP±PSPēPeP° C,P° PNēPsPiPs**



**Р°РrСђРµСѓР° РjС-СѓС†СЦ РiСђРsРIP°РrР¶РµРPSPSCЦ РrС-СЦР»СђРSPsСѓС,С-.**

Р'СђСЦР»Рµ Р•СѓСђРsРiР°, 11 вђ“ 21040 РђСђС-РrР¶СђРs (VA), Р†С,Р°Р»С-СЦ.

**Р–Р°СЦРIPSPёРё.**

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**РђС-СѓС†РµР•РPSP°С...РsРrР¶РµРPSPSCЦ Р•Р°СЦРIPSPёРёР° С,Р° РN₂РsРiРs  
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