

$\text{P}\ddot{\text{Y}}\text{C}-\text{PsPePsP}\gg\text{C}\dots\text{C}-\text{PePsP}\cdot\text{P}\ddot{\text{e}}\text{Pr}\ \text{в}\ddot{\text{H}}\text{''}\ \text{PSP}^{\circ}\text{P}\ddot{\text{i}}\text{C}-\text{P}\text{IC}\acute{\text{I}}\text{P}\ddot{\text{e}}\text{PSC},\text{P}_{\mu}\text{C},\text{P}\ddot{\text{e}}\text{C}\ddagger\text{PSP}\ddot{\text{e}}\text{PN}_{\text{e}}$
 $\text{C}\acute{\text{I}}\text{C}\acute{\text{r}}\text{P}\gg\text{CHbC},,\text{C}-\text{PrPSP}\ddot{\text{e}}\text{PN}_{\text{e}}\ \text{P}^{\circ}\text{PSP}^{\circ}\text{P}\gg\text{PsPi}\ \text{PSP}^{\circ}\text{C},\text{C}\acute{\text{r}}\text{C}\ddot{\text{H}}\text{P}^{\circ}\text{P}\gg\text{CHbPSPsPiPs}\ \text{PiP}\gg\text{C}-\text{PePsP}\cdot\text{P}\ddot{\text{e}}\text{PrC}\acute{\text{r}}$
 $\text{PePsP}\gg\text{C}\dots\text{C}-\text{C}\ddagger\text{P}\ddot{\text{e}}\text{PSC}\acute{\text{r}},\ \text{PrC}-\text{C}''\ \text{C}\ddot{\text{I}}\text{Pe}\ \text{C}\ddagger\text{P}_{\mu}\text{PSC},\text{C}\ddot{\text{H}}\text{P}^{\circ}\text{P}\gg\text{CHbPSP}\ddot{\text{e}}\text{PN}_{\text{e}}\ \text{PjC}-\text{PsC}\ddot{\text{H}}\text{P}_{\mu}\text{P}\gg\text{P}^{\circ}\text{PeC}\acute{\text{I}}\text{P}^{\circ}\text{PSC},,$
 $\text{PSP}_{\mu}\ \text{PiP}\ddot{\text{e}}\text{C}\ddot{\text{I}}\text{PiP}\gg\text{C}\ddot{\text{I}}\text{C}''\ \text{PeC}\acute{\text{r}}\text{C}\ddot{\text{H}}\text{P}^{\circ}\text{C}\ddot{\text{H}}\text{P}_{\mu}\text{PiPsPrC}-\text{P}\pm\text{PSP}\ddot{\text{e}}\text{C}\dots\ \text{P}_{\mu}\text{C},,\text{P}_{\mu}\text{PeC},\text{C}-\text{PI},\ \text{PsC}\acute{\text{I}}\text{PeC}-\text{P}\gg\text{CHbPeP}\ddot{\text{e}}$
 $\text{PrC}-\text{C}''\ \text{C}\ddagger\text{P}_{\mu}\text{C}\ddot{\text{H}}\text{P}_{\mu}\text{P}\cdot\ \text{C}\ddagger\text{P}_{\mu}\text{PSC},\text{C}\ddot{\text{H}}\text{P}^{\circ}\text{P}\gg\text{CHbPSC}\acute{\text{r}}\ \text{PSP}_{\mu}\text{C}\ddot{\text{H}}\text{PiPsPiC}\acute{\text{r}}\ \text{C}\acute{\text{I}}\text{P}\ddot{\text{e}}\text{C}\acute{\text{I}}\text{C},\text{P}_{\mu}\text{PjC}\acute{\text{r}}\ (\text{P}\acute{\text{I}}\text{P}\acute{\text{K}}\text{P}\ddot{\text{Y}}),\ \text{P}^{\circ}$
 $\text{PSP}_{\mu}\ \text{C}\ddagger\text{P}_{\mu}\text{C}\ddot{\text{H}}\text{P}_{\mu}\text{P}\cdot\ \text{PSP}_{\mu}\text{C}\ddot{\text{H}}\text{PiPsPiPs}-\text{Pjв}\ddot{\text{H}}^{\text{TM}}\ \text{C}\ddot{\text{I}}\text{P}\cdot\text{PsPiP}_{\mu}\ \text{P}\cdot\text{в}\ddot{\text{H}}^{\text{TM}}\ \text{C}''\text{PrPSP}^{\circ}\text{PSPSC}\ddot{\text{I}}.\ \text{P}'\text{C}-\text{PS}$
 $\text{P}\cdot\text{PSP}\ddot{\text{e}}\text{P}\P\text{C}\acute{\text{r}}\text{C}''\ \text{P}^{\circ}\text{P}\pm\text{Ps}\ \text{P}\cdot\text{PSP}^{\circ}\text{C}\ddagger\text{PSPs}\ \text{PiC}\ddot{\text{H}}\text{P}\ddot{\text{e}}\text{PiPSC}-\text{C}\ddagger\text{C}\acute{\text{r}}\text{C}''\ \text{C}\acute{\text{I}}\text{PePsC}\ddot{\text{H}}\text{PsC},\text{P}\gg\text{P}\ddot{\text{e}}\text{PiC}\acute{\text{r}}$
 $\text{P}^{\circ}\text{PeC},\text{P}\ddot{\text{e}}\text{PiPSC}-\text{C}\acute{\text{I}}\text{C},\text{CHb}\ \text{C}\acute{\text{I}}\text{PiP}^{\circ}\text{P}\cdot\text{PjPsPiP}^{\circ}\text{PSP}\ddot{\text{e}}\text{C}\dots\ \text{Pjв}\ddot{\text{H}}^{\text{TM}}\ \text{C}\ddot{\text{I}}\text{P}\cdot\text{C}-\text{PI},\ \text{P}\cdot\text{PjP}_{\mu}\text{PSC}\epsilon\text{C}\acute{\text{r}}\text{C}''$

$\text{P}_{\text{u}}\text{C}-\text{CfP} \gg \text{C}_{\text{u}} \text{ P}_{\text{u}}\text{C}_{\text{H}}\text{P}_{\text{S}}\text{C}_{\text{H}}\text{P}^{\circ} \gg \text{C}_{\text{H}}\text{PSPsPiPs} \text{ P}^{\circ}\text{P}^{\circ}\text{CfC}, \text{PsCfCfPIP}^{\circ}\text{PSPSC}_{\text{u}}$
 $\text{C}, \text{C}-\text{PsPePsP} \gg \text{C} \dots \text{C}-\text{PePsP} \cdot \text{P}_{\text{e}}\text{Pr} \text{ CfPiPsC}\ddagger\text{P}^{\circ}\text{C}, \text{PeCr} \text{ PjP}_{\text{u}}\text{C}, \text{P}^{\circ}\text{P} \pm \text{PsP} \gg \text{C}-\text{P} \cdot \text{CrC}''\text{C}, \text{C}_{\text{H}}\text{CfC}_{\text{u}} \text{ PrPs}$
 $\text{P}^{\circ}\text{PiP} \gg \text{C}-\text{PePsPS}-3-\text{PrP}_{\text{u}}\text{PjP}_{\text{u}}\text{C}, \text{P}_{\text{e}}\text{P} \gg \text{C}, \text{C}-\text{PePsP} \gg \text{C} \dots \text{C}-\text{C}\ddagger\text{P}_{\text{e}}\text{PSCf} \text{ P}^{\circ}\text{P} \pm \text{Ps} \text{ SL59.0955}, \text{C}\ddagger\text{P}_{\text{u}}$
 $\text{PIC}-\text{PrP} \pm \text{CfPIP}^{\circ}\text{C}''\text{C}, \text{C}_{\text{H}}\text{CfC}_{\text{u}}, \text{PI} \text{ PsCfPSPsPIPSPsPjCr}, \text{Cr} \text{ PeC}-\text{C}_{\text{e}}\text{PeC}-\text{PIPSP}_{\text{e}}\text{PeCr}. \text{P}-\text{C}\ddagger\text{P}_{\text{e}}\text{Pj}$
 $\text{PiPsPi}_{\text{B}}\text{H}^{\text{TM}} \text{ C}_{\text{u}}\text{P} \cdot \text{CrC}_{\text{H}}\text{C}, \text{C}_{\text{H}} \text{ PIC}-\text{PrCfCfC}, \text{PSC}-\text{CfC}, \text{C}_{\text{H}} \text{ PSP}_{\text{u}}\text{P} \cdot \text{PjC}-\text{PSP}_{\text{u}}\text{PSPsPiPs}$
 $\text{C}, \text{C}-\text{PsPePsP} \gg \text{C} \dots \text{C}-\text{PePsP} \cdot \text{P}_{\text{e}}\text{PrCr} \text{ PI} \text{ PiP} \gg \text{P}^{\circ}\text{P} \cdot \text{PjC}-\text{PeC}_{\text{H}}\text{PSPIC}-\text{PiC}-\text{CfP} \gg \text{C}_{\text{u}}$
 $\text{PiP}_{\text{u}}\text{C}_{\text{H}}\text{PsC}_{\text{H}}\text{P}^{\circ} \gg \text{C}_{\text{H}}\text{PSPsPiPs} \text{ P}^{\circ}\text{P}^{\circ}\text{CfC}, \text{PsCfCfPIP}^{\circ}\text{PSPSC}_{\text{u}}. \text{P}_{\text{H}}\text{P}_{\text{u}}\text{C}, \text{P}^{\circ}\text{P} \pm \text{PsP} \gg \text{C}-\text{C}, \text{SL59.0955}$

PiP»CᖃPeCfCᖃPsPePsPSbᖃ™ CᖃPiCfC”C,CHCfCᖃ PrPs SL18.0740, CᖃPePᖃPNᖃ PjP°C”
PᖃC,,PᖃPeC,PᖃPIPSC-CfC,CH PSPᖃP·PjC-PSPSPsPiPs C,C-PsPePsP»C...C-PePsP·PᖃPrCf,
C,P°PePᖃPj CᖃPᖃPSPsPj P·P°P±PᖃP·PᖃPᖃCᖃCfC”C,CHCfCᖃ C,,P°CᖃPjP°PePsP»PsPiC-CᖃPSP°
P°PeC,PᖃPIPSC-CfC,CH PiPᖃCᖃPsCᖃP°P»CHPSPsPiPs C,C-PsPePsP»C...C-PePsP·PᖃPrCf.
SL59.0955 C,P°PePsPᖃ PrPᖃPjPᖃC,PᖃP»CᖃC”C,CHCfCᖃ PI
PrPᖃPrPᖃPjPᖃC,PᖃP»C,C-PsPePsP»C...C-CᖃPᖃPS.

P’PᖃPIPᖃPrPᖃPSPSCᖃ

PᖃC-CfP»Cᖃ PiPᖃCᖃPsCᖃP°P»CHPSPsPiPs P·P°CfC,PsCfCfPᖃP°PSPSCᖃ PIPᖃPIPᖃPrPᖃPSPSCᖃ
PjPᖃC,P°P±PsP»C-C,C-PI PIC-PrP±CfPᖃP°C”C,CHCfCᖃ PiPᖃCᖃPᖃPIP°PᖃPSPs P· PeP°P»PsPj
(79 %) C,P° CfPᖃCᖃPᖃCᖃ bᖃ” 20%. P’ PSPᖃP·PjC-PSPᖃPSPsPjCf PIPᖃPiP»CᖃPrC-
C,C-PsPePsP»C...C-PePsP·PᖃPr P· CfPᖃCᖃPᖃCᖃ P°P±Ps PeP°P»PsPj PSPᖃ
PIPᖃPIPsPrPᖃC,CHCfCᖃ. PᖃPᖃC,P°P±PsP»C-C,Pᖃ SL18.0740 C,P° SL59.0955
PIPᖃCᖃPIP»CᖃCᖃC,CHCfCᖃ PI CfPᖃCᖃC- C- PeP°P»C-, Cf C,PsPNᖃ CᖃP°Cf CᖃPe
PrPᖃPrPᖃPjPᖃC,PᖃP»C,C-PsPePsP»C...C-CᖃPᖃPS PIPᖃPIPsPrPᖃC,CHCfCᖃ C,C-P»CHPePᖃ P·
PeP°P»PsPj.

PᖃC-CfP»Cᖃ PiPᖃCᖃPsCᖃP°P»CHPSPsPiPs P·P°CfC,PsCfCfPᖃP°PSPSCᖃ
C,C-PsPePsP»C...C-PePsP·PᖃPrCf PiPᖃCᖃC-PsPr PSP°PiC-PIPIPᖃPIPᖃPrPᖃPSPSCᖃ
PjPᖃC,P°P±PsP»C-C,Cf SL18.0740 CfC,P°PSPsPIPᖃC,CH 3,2bᖃ”7 PiPsPrPᖃPS, P°
PjPᖃC,P°P±PsP»C-C,Cf SL59.0955 bᖃ” Cf CfPᖃCᖃPᖃPrPSCᖃPsPjCf 0,8 PiPsPrPᖃPSPᖃ.

P”PsPeP»C-PSC-CᖃPSC- PrP°PSC- P· P±PᖃP·PiPᖃPePᖃ

PᖃPᖃC,P°P±PsP»C-C, P°PiP»C-PePsPS (3-PrPᖃPjPᖃC,PᖃP»C,C-PsPePsP»C...C-CᖃPᖃPS-SL59.0955),
CᖃPePᖃPNᖃ CfC,PIPsCᖃCᖃC”C,CHCfCᖃ PiPᖃCᖃPᖃPIP°PᖃPSPs PiC-CfP»Cᖃ
PiPᖃCᖃPsCᖃP°P»CHPSPsPiPs P·P°CfC,PsCfCfPᖃP°PSPSCᖃ, C-PSPPrCfPeCfC”
PiPsCᖃPePsPrPᖃPᖃPSPSCᖃ C...CᖃPsPjPsCfPsPj in vitro (PjC-PeCᖃPsCᖃPrPᖃCᖃPSPᖃPNᖃ C,PᖃCfC,
PSP° P»C-PjC,,PsCᖃPᖃC,P°C... P»CᖃPrPᖃPSPᖃ) C,P° PiPsCᖃPePsPrPᖃPᖃPSPSCᖃ
C...CᖃPsPjPsCfPsPj in vivo (PjC-PeCᖃPsCᖃPrPᖃCᖃPSPᖃPNᖃ C,PᖃCfC, Cf PeC-CfC,PePsPIPsPjCf
PjPsP·PeCf C%ᖃCfCᖃC-PI PiC-CfP»Cᖃ PiPᖃCᖃPsCᖃP°P»CHPSPsPiPs
P·P°CfC,PsCfCfPᖃP°PSPSCᖃ). PᖃC-PeCᖃPsCᖃPrCᖃP° PIPᖃPSPᖃPeP»Pᖃ PiPsP»PsPIPSPᖃPj
CᖃPᖃPSPsPj PIPSP°CfP»C-PrPsPe C...CᖃPsPjPsCfPsPjPSPsC— PIC,CᖃP°C,Pᖃ
(CᖃPᖃPSC,CᖃPsPjPᖃCᖃPSPs-PiPsP·PᖃC,PᖃPIPSC- PjC-PeCᖃPsCᖃPrCᖃP° PiC-CfP»Cᖃ
C,,P°CᖃP±CfPᖃP°PSPSCᖃ CᖃPᖃPSC,CᖃPsPjPᖃCᖃ FISH P°P±Ps CREST), C%ᖃPs CfPIC-PrCᖃPᖃC,CH
PiCᖃPs P°PSPᖃCfPiPᖃPSPSC- PIP»P°CfC,PᖃPIPsCfC,C-. PᖃPSPᖃCfPiPᖃPSPSPᖃPNᖃ PᖃC,,PᖃPeC,
SL59.0955 CfPiPsCfC,PᖃCᖃC-PiP°PICfCᖃ PiCᖃPᖃ PePsPSCᖃPᖃPSC,CᖃP°CᖃC-CᖃC... in vitro C-
PiCᖃPᖃ PᖃPeCfPiPsP·PᖃCᖃC— PI C,PᖃCfC,C- in vivo, P±P»PᖃP·CHPePᖃC... PrPs C,PᖃC..., C%ᖃPs
CfPiPsCfC,PᖃCᖃC-PiP°CᖃC,CHCfCᖃ Cf PiP»P°P·PjC- PeCᖃPsPIC- P»CᖃPrPᖃPSPᖃ Cf
C,PᖃCᖃP°PiPᖃPIC,PᖃCᖃPSPᖃC... PrPsP·P°C... 8 PjPi PrPIC-CᖃC- PSP° PrPsP±Cf
PiPᖃCᖃPsCᖃP°P»CHPSPs. PᖃPSPᖃCfPiPᖃPSPSPᖃPNᖃ PᖃC,,PᖃPeC, Cf PeP»C-C,PᖃPSP°C..., C%ᖃPs
PrC-P»CᖃC,CHCfCᖃ, PjPsPᖃPᖃ CfPiCᖃPᖃCᖃPᖃPSPᖃC,Pᖃ P°PSPᖃCfPiP»PsC—PrC-Cᖃ
PeP»C-C,PᖃPS. PᖃPSPᖃCfPiP»PsC—PrC-Cᖃ - CᖃPᖃ P·PjC-PSP° PeC-P»CHPePsCfC,C-
C...CᖃPsPjPsCfPsPj C- PIC,CᖃP°C,P° PiPᖃC,PᖃCᖃPsP·PᖃPiPsC,PSPsCfC,C-, CᖃPeP°
PIPᖃP·PSP°PSP° C,,P°PeC,PsCᖃPsPj CᖃPᖃP·PᖃPeCf C,PᖃCᖃP°C,PsPiPᖃPSPSPsCfC,C-,
PᖃPjP±CᖃC-PsPSP°P»CHPSPsC— C,PsPeCfPᖃCᖃPSPsCfC,C- / CfPiPsPSC,P°PSPSPᖃC...
P°P±PsCᖃC,C-PI C,P° PiPsPiC-CᖃCᖃPᖃPSPSCᖃ CᖃPsP»PsPIC-CᖃPsC—
C,,PᖃCᖃC,PᖃP»CHPSPsCfC,C- (PiCᖃPᖃ CfCᖃP°PᖃPᖃPSPSC- CfC,P°C,PᖃPIPᖃC... PeP»C-C,PᖃPS),
P° C,P°PePsPᖃ PiPsC,PᖃPSCᖃC-PNᖃPSPᖃPj C,,P°PeC,PsCᖃPsPj CᖃPᖃP·PᖃPeCf CᖃPsP·PIPᖃC,PeCf
CᖃP°PeCf (PiCᖃPᖃ CfCᖃP°PᖃPᖃPSPSC- CfPsPjP°C,PᖃCᖃPSPᖃC... PeP»C-C,PᖃPS).
PᖃP°CᖃPIPSC-CfC,CH PjPᖃC,P°P±PsP»C-C,Cf P°PiP»C-PePsPSCf (3-

PrPμPjPμC,PëP»C,C-PsPePsP»C...C-C†PëPS-SL59.0955) PiC-C†P»C¼
 PIPSCrC,CȚC-C€PSCĤPsPj'C¼P·PsPIPsPiPs PIPIPμPrPμPSPSC¼ PSPμ
 PrPsC†P»C-PrP¶C†PIP°P»P°C†C¼, C,PSPjC† PNePsPiPs CrC,PIPsCȚPμPSPSC¼ PiCȚPë
 C,P°PePsPjC† C†PiPsC†PsP±C- PIPIPμPrPμPSPSC¼ PSPμ PjPsP¶PSP° PIPëPeP»CȚC†PëC,Pë.
 PȚC-PsPePsP»C...C-PePsP·PëPr C,P° PNePsPiPs PjPμC,P°P±PsP»C-C,Pë PiCȚPsC¼PIP»C¼CȚC,CH
 P°PSPμC†PiPμPSPSC† P°PeC,PëPIPSC-C†C,CH PiCȚPë CȚC-P·PSPëC... CȚC-PIPSC¼C...
 PePsPSC†PμPSC,CȚP°C†C-C—, C‰Ps PIPëP·PSP°PSPs C„P°PeC,PsCȚPsPj CȚPëP·PëPeC†
 P·PjC-PSPë C„PμCȚC,PëP»CHPSPsC†C,C- P»CȚPrPëPSPë.

PŁP°PSC†PμCȚPsPiPμPSPSPëPNe PiPsC,PμPSC†C-P°P» PSPμ PsC†C-PSCȚPIP°PIC†C¼.

PŁP»iPSiC†PSi C...P°CȚP°PeC,PμCȚPëC†C,PëPePë.

PμPsPeP°P·P°PSPSC¼.

PȚPrBȚ™ CȚPIP°PSC,PSP° C,PμCȚP°PiC-C¼ P±PsP»C-C†PSPëC... PjBȚ™ C¼P·PsPIPëC...
 PePsPSC,CȚP°PeC,C†CȚ C† PIPëPiP°PrPeP°C... PiPsC†C,CȚPëC... PiP°C,PsP»PsPiC-PNe
 C...CȚPμP±C,P° C† PrPsCȚPsC†P»PëC... C,P° PiC-PrP»C-C,PeC-PI PIC-PePsPj PIC-Pr 16
 CȚPsPeC-PI.

PμCȚPsC,PëPiPsPeP°P·P°PSPSC¼.

PȚC-PsPePsP»C...C-PePsP·PëPr PSPμ C†P»C-Pr P·P°C†C,PsC†PsPIC†PIP°C,Pë:

- PiP°C†C-C”PSC,P°Pj C-P· PiC-PrPIPëC‰PμPSPsCȚ C†CrC,P»PëPIC-C†C,CȚ PrPs
 PrC-CȚC†PsC— CȚPμC†PsPIPëPSPë P°P±Ps PrPs P±C†PrCȚ-C¼PePsC— P·
 PrPsPiPsPjC-P¶PSPëC... CȚPμC†PsPIPëPS P»C-PeP°CȚC†CHPePsPiPs P·P°C†PsP±C†;
- PiP°C†C-C”PSC,P°Pj, C¼PeC- C†C,CȚP°P¶PrP°CȚC,CH PSP°B PiBȚ™ C¼P»PëPNe
 PiP°CȚP°P»C-C†, Pj'C¼P·PsPIC† PiC-PiPsC,PsPSC-CȚ;
- PiC-Pr C†P°C† PIP°PiC-C,PSPsC†C,C-;-B-
- C† PiPμCȚC-PsPr PiPsPrC†PIP°PSPSC¼ PiCȚC†PrPrCȚ;
- P¶C-PSPeP°Pj CȚPμPiCȚPsPrC†PeC,PëPIPSsPiPs PIC-PeC†, C¼PeC- PSPμ
 PIPëPePsCȚPëC†C,PsPIC†CȚC,CH PSP°P»PμP¶PSC- P·P°C†PsP±Pë PePsPSC,CȚP°C†PμPiC†C-C—
 PiC-Pr C†P°C† P»C-PeC†PIP°PSPSC¼ P»C-PeP°CȚC†CHPePëPj P·P°C†PsP±PsPj PȚC-PsPSPμPeC†
 C,P° PiCȚPsC,C¼PiPsPj PsPrPSPsPiPs PjC-C†C¼C†C¼ PiC-C†P»C¼ PiCȚPëPiPëPSPμPSPSC¼
 P»C-PeC†PIP°PSPSC¼ (PrPëPI. CȚPsP·PrC-P»Pë B«PhC†PsP±P»PëPIPsC†C,C-
 P·P°C†C,PsC†C†PIP°PSPSC¼B»B C,P° B«P—P°C†C,PsC†C†PIP°PSPSC¼ C† PiPμCȚC-PsPr
 PIP°PiC-C,PSPsC†C,C- P°P±Ps PiPsPrC†PIP°PSPSC¼ PiCȚC†PrPrCȚB»);
- C†PsP»PsPIC-PeP°Pj, C¼PeC- PSPμ PIPëPePsCȚPëC†C,PsPIC†CȚC,CH PSP°P»PμP¶PSC-
 P·P°C†PsP±Pë PePsPSC,CȚP°C†PμPiC†C-C— PiC-Pr C†P°C† P»C-PeC†PIP°PSPSC¼
 P»C-PeP°CȚC†CHPePëPj P·P°C†PsP±PsPj PȚC-PsPSPμPeC† C,P° PiCȚPsC,C¼PiPsPj 3
 PjC-C†C¼C†C-PI PiC-C†P»C¼ PiCȚPëPiPëPSPμPSPSC¼ P»C-PeC†PIP°PSPSC¼ (PrPëPI.
 CȚPsP·PrC-P»Pë B«PhC†PsP±P»PëPIPsC†C,C-B P·P°C†C,PsC†C†PIP°PSPSC¼B» C,P°
 B«P—P°C†C,PsC†C†PIP°PSPSC¼ C† PiPμCȚC-PsPr PIP°PiC-C,PSPsC†C,C- P°P±Ps

PiPsPrCfPIP°PSPSCl PiCfCfPrPrChB»).

P'P·P°C" PjPsPrC-Cl P·C-PSC€PëPjPë P»C-PeP°CfCfChPePëPjPë P·P°CfPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C" PjPsPrC-PN.

P†PSC,,PsCfPjP°C†C-Cl C%PsPrPs PIP·P°C" PjPsPrC-C— PIC-PrCfCfC,PSCl.

PhCfPsP±P»PëPIPsCfC,C- P·P°CfC,PsCfCzPIP°PSPSCl.

PJ CfP°P·C- PrC-P°CfPμC— PïC-CfP»Cl PïPμCfPsCfP°P»ChPSPsPiPs PïCfPëPNëPsPjCf PrPsP·Cf CfP»C-Pr P·PjPμPSC€PëC,Pë PSP°P»PμP¶PSPëPj C†PëPSPsPj.

PμPsPIC-PrPsPjP»ClP»PsCfCl PïCfPs PIPëPïP°PrPePë CfCfP°P¶PμPSPSCl PïPμC†C-PSPëPë PïC-CfP»Cl P·P°CfC,PsCfCfPIP°PSPSCl C,C-PsPePsP»C...C-PePsP·PëPrCf. PÿPμCfPNëPsP·PSC- PIPëPïP°PrPePë (PSP°PïCfPëPeP»P°Pr,B C,,CfP»ChPjC-PSP°PSC,PSPëPNë PïPμPïP°C,PëC,) P±CfP»Pë P·P°CfPμC" CfC,CfPsPIP°PSC- Cf PïP°C†C-C" PSC,C-PI, ClPeC- PsPrPSPsC†P°CfPSPs P·C,C-PsPePsP»C...C-PePsP·PëPrPsPj PïCfPëPNëPjP°P»Pë PSPμCfC,PμCfPsC—PrPSC- PïCfPsC,PëP·P°PïP°P»ChPSC- P·P°CfPsP±Pë P°P±Ps PïP°CfP°C†PμC,P°PjPsP». PμP°C†C-C" PSC,P°Pj CfP»C-Pr PïCfPëPïPëPSPëC,Pë P»C-PeCfPIP°PSPSCl C,P° P·PIPμCfPSCrC,PëCfCl PrPs P»C-PeP°CfCl, ClPeC%Ps Cf PSPëC... P·Bf™ ClPIP»ClC,ChCfCl PsP·PSP°PePë C†Pë CfPëPjPïC,PsPjPë CfCfP°P¶PμPSPSCl PïPμC†C-PSPëPë (PrPëPI. CfPsP·PrC-P» B«PμPsP±C-C†PSC- CfPμP°PeC†C-C—B»).

PÿC-PsPePsP»C...C-PePsP·PëPr PjPsP¶Pμ CfPïCfPsPIPsPeCfPIP°C,Pë CfCfPrPsPjPë, PsCfPsP±P»PëPIPs Cf PïP°C†C-C" PSC,C-PI P· PμPïC-P»PμPïCfC-C" Ch P°P±Ps Cf PïP°C†C-C" PSC,C-PI, ClPeC- PïPμCfPμP±CfPIP°ChC,Ch Cf PïCfCfPïC- CfPëP·PëPeCf PIPëPSPëPePSPμPSPSCl CfCfPrPsPj. P'PëPSPëPePSPμPSPSCl CfCfPrPsPj PIPëPjP°PïP°C" PïCfPëPïPëPSPμPSPSCl P»C-PeCfPIP°PSPSCl (PrPëPI. CfPsP·PrC-P» B«PμPsP±C-C†PSC- CfPμP°PeC†C-C—B»).

PñP°PeCfPëPjP°P»ChPSP° PrPsP±PsPIP° PrPsP·P° PSPμ PïPsPIPëPSPSP° PïPμCfPμPIPëC%CfPIP°C,Pë 16 PjPi C- PïPsPIPëPSPSP° P±CfC,Pë CfPsP·PïPsPrC-P»PμPSP° PSP° PrPIP° PïCfPëPNëPsPjPë P· C-PSC,PμCfPIP°P»PsPj Cf 12 PiPsPrPëPS.

PJ CfP°P·C- PïCfPsPïCfCfPeCf C†PμCfPiPsPIPsC— PrPsP·Pë CfP»C-Pr PïPμCfPμPNëC,Pë PrPs PSP°CfC,CfPïPSPsC—, CfPSPëPeP°ChC†Pë PSP°PrC,Ps PePsCfPsC,PePsPiPs C-PSC,PμCfPIP°P»Cf PjC-P¶ PïCfPëPNëPsPjP°PjPë.

P" PμPSPsC,PsPeCfPëC†PSPëPNë PïPsC,PμPSC†C-P°P»

PñPμC,P°P±PsP»C-C, C,C-PsPePsP»C...C-PePsP·PëPrCf (SL59.0955), P·PiC-PrPSPs PrP°PSPëC... PrPsPeP»C-PSC-C†PSPëC... PrPsCfP»C-PrP¶PμPSCb CfPïCfPëC†PëPSClC" P°PSPμCfPïP»PsC—PrC-Ch (P·PjC-PSP° PeC-P»ChPePsCfC,C- C...CfPsPjPsCfPsPj Cf PeP»C-C,PëPSP°C..., C%Ps PrC-P»ClC,ChCfCl) Cf PePsPSC†PμPSC,CfP°C†C-ClC..., P±P»PëP·ChPePëC... PrPs CfC-PIPSCl PIPïP»PëPICf PSP° P»ChPrPëPSCr, ClPePëPNë CfPïPsCfC,PμCfC-PïP°PICfCl PïCfPë PrPsP·P°C... 8

PjPi PrPIC-C±C- PSP° PrPsP±Cf PīPμCḡPsCḡP°P»CHbPSPs (PrPēPI. CḡPsP·PrC-P»
B«PαP°CḡPjP°PePsP»PsPiC-C±PSC- PIP»P°CfC,PēPIPsCfC,C-B»).

PḡPSPμCfPīP»PsC—PrC-Cḡ PIPiP°P¶P°C”C,CHbCfCḡ C,,P°PeC,PsCḡPsPj CḡPēP·PēPeCf
C,PμCḡP°C,PsPiPμPSPSPsCfC,C-, C,PsPeCfPēC±PSPsCfC,C- PrP»Cḡ
PμPjP±CḡC-PsPSP°/PīP»PsPrP°, PIPēPePēPrPSCḡ, PīPsCḡCfC€PμPSPSCḡ
C±PsP»PsPIC-C±PsC— C,,PμCḡC,PēP»CHbPSPsCfC,C- C,P° PīPsC,PμPSC†C-PNēPSPēPj
C,,P°PeC,PsCḡPsPj CḡPēP·PēPeCf PIPēPSPēPePSPμPSPSCḡ CḡP°PeCf. Pj CḡPePsCfC,C-
PīCḡPsC,,C-P»P°PeC,PēPePē CfP»C-Pr CfPSPēPeP°C,Pē PīPμCḡPμPIPēC%PμPSPSCḡ
CḡPμPePsPjPμPSPPrPsPIP°PSPsC— PrPsP·Pē P»C-PeP°CḡCfCHbPePsPiPs P·P°CfPsP±Cf
P°P±Ps C,CḡPēPIP°P»PsPiPs P·P°CfC,PsCfCfPIP°PSPSCḡ (PrPēPI. CḡPsP·PrC-P»
B«PŸPīPsCfC-P± P·P°CfC,PsCfCfPIP°PSPSCḡ C,P° PrPsP·PēB»).

PμP°C†C-C”PSC,Pē PīPsPIPēPSPSC- P±CfC,Pē PrPsP±CḡPμ PīPsC-PSC,,PsCḡPjPsPIP°PSC-
C%PsPrPs PīPsC,PμPSC†C-PNēPSPēC... CḡPēP·PēPeC-PI PrP»Cḡ PjPsP¶P»PēPIPsC—
PIP°PiC-C,PSPsCfC,C- C,P° C%PsPrPs PμC,,PμPeC,PēPIPsPēC... P·P°CfPsP±C-PI
PePsPSC,CḡP°C†PμPīC†C-C—, CḡPeC- CfP»C-Pr P·P°CfC,PsCfPsPICfPIP°C,Pē (PrPēPI.
CḡPsP·PrC-P»Pē B«PμCḡPsC,PēPīPsPeP°P·P°PSPSCḡB» C,P° B«P—P°CfC,PsCfCfPIP°PSPSCḡ Cf
PīPμCḡC-PsPr PIP°PiC-C,PSPsCfC,C- P°P±Ps PiPsPrCfPIP°PSPSCḡ PiCḡCfPrPrCḡB»).

P>C-PeP°CḡCfCHbPePēPNē P·P°CfC-P± PjC-CfC,PēC,CHb P»P°PeC,PsP·Cf, C,PsPjCf
PīP°C†C-C”PSC,P°Pj P· CḡC-PrPeC-CfPSPēPjPē CfPīP°PrPePsPIPēPjPē C,,PsCḡPjP°PjPē
PSPμPīPμCḡPμPSPsCfPēPjPsCfC,C- PīP°P»P°PeC,PsP·Pē, PSPμPrPsCfC,P°C,PSC-CfC,Cḡ
P»P°PeC,P°P·Pē P°P±Ps CfPēPSPrCḡPsPjPsPj PiP»CḡPePsP·Ps-PiP°P»P°PeC,PsP·PSPsC—
PjP°P»CHbP°P±CfPsCḡP±C†C-C— PSPμ CfP»C-Pr PNēPsPiPs P·P°CfC,PsCfPsPICfPIP°C,Pē.

*P—P°CfC,PsCfC€PIP°PSPSCḡ C€ PīPμCḡC-PsPr PIP°PiC-C,PSPsCfC,C- P°P±Ps
PiPsPrC€PIP°PSPSCḡ PiCḡC€PrPrCḡ.*

PḡPsPSC,CḡP°C†PμPīC†C-Cḡ Cf P¶C-PSPsPe C- C±PsP»PsPIC-PeC-PI

PŸC-PsPSPμPeCf PīCḡPsC,PēPīPsPeP°P·P°PSPēPNē P¶C-PSPeP°Pj
CḡPμPīCḡPsPrCfPeC,PēPIPsPiPs PIC-PeCf C,P° C±PsP»PsPIC-PeP°Pj, CḡPeC- PSPμ
PIPēPePsCḡPēCfC,PsPICfCḡC,CHb PμC,,PμPeC,PēPIPsC- P·P°CfPsP±Pē
PePsPSC,CḡP°C†PμPīC†C-C— (PrPēPI. CḡPsP·PrC-P»
B«PμCḡPsC,PēPīPsPeP°P·P°PSPSCḡB»).

PḡPμCḡPμP· P°PSPμCfPiPμPSPSPēPNē PīPsC,PμPSC†C-P°P»
C,C-PsPePsP»C...C-PePsP·PēPrCf C,P° PNēPsPiPs PjPμC,P°P±PsP»C-C,C-PI P¶C-PSPeP°Pj
CḡPμPīCḡPsPrCfPeC,PēPIPsPiPs PIC-PeCf CfP»C-Pr P·P°CfC,PsCfPsPICfPIP°C,Pē
PμC,,PμPeC,PēPIPsC- P·P°CfPsP±Pē PePsPSC,CḡP°C†PμPīC†C-C— PīC-Pr C±P°Cf
P»C-PeCfPIP°PSPSCḡ C,C-PsPePsP»C...C-PePsP·PēPrPsPj C,P° PīCḡPsC,CḡPiPsPj 1
PjC-CfCḡC†Cḡ PīC-CfP»Cḡ P·P°PIPμCḡC€PμPSPSCḡ P»C-PeCfPIP°PSPSCḡ (PrPēPI.
CḡPsP·PrC-P» B«PαP°CḡPjP°PePsP»PsPiC-C±PSC- PIP»P°CfC,PēPIPsCfC,C-B»).

PḡPsP»PsPIC-PePē PīPsPIPēPSPSC- PIPēPePsCḡPēCfC,PsPICfPIP°C,Pē
PμC,,PμPeC,PēPIPsC- P·P°CfPsP±Pē PePsPSC,CḡP°C†PμPīC†C-C— PīC-Pr C±P°Cf
P»C-PeCfPIP°PSPSCḡ C,C-PsPePsP»C...C-PePsP·PēPrPsPj C- PīCḡPsC,CḡPiPsPj 3
PjC-CfCḡC†C-PI PīC-CfP»Cḡ P·P°PIPμCḡC€PμPSPSCḡ P»C-PeCfPIP°PSPSCḡ (PrPēPI.

PIPsPrPë.

P"PsP·Pë

P PμPePsPjPμPSPPrPsPIP°PSP° PrPsP·P° CÍC,P°PSPsPIPeC,CH 8 PjPi PePsP¶PSC- 12 PiPsPrPëPS (PrPsP·P° 16 PjPi C,C-PsPePsP»C...C-PePsP·PëPrCí C" C,P°PePsP¶ PjP°PeCÍPëPjP°P»CHPSPsCH PSP° PrPsP±Cí). PýCjPëPIP°P»C-CÍC,CH P»C-PeCíPIP°PSPSC¶ PSPμ PiPsPIPePSPSP° PiPμCjPμPIPeC%oCíPIP°C,Pë 7 PrPSC-PI PiPsCÍPiC-P»CH. PŸP»C-Pr CíPSPëPeP°C,Pë PiPμCjPμPIPeC%oPμPSPSC¶ CjPμPePsPjPμPSPPrPsPIP°PSPsC— PrPsP·Pë P°P±Ps C,CjPëPIP°P»PsPiPs P·P°CÍC,PsCÍCíPIP°PSPSC¶ (PrPëPI. CjPsP·PrC-P» B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCíPIP°PSPSC¶B»).

P"C-C,Pë.

P>C-PeP°CjCÍCHPePëPN P·P°CÍC-P± PiCjPsC,PëPiPsPeP°P·P°PSPëPN PrC-C,C¶Pj C,P° PiC-PrP»C-C,PeP°Pj PIC-PePsPj PrPs 16 CjPsPeC-PI.

PμPμCjPμPrPsP·CzPIP°PSPSC¶.

PŸPëPjPiC,PsPjPë

P¶PsP¶P»PëPIC- PiCjPsC¶PIPe P· P±PsPeCí C€P»CíPSPePsPIPs-PePëC€PePsPIPsPiPs C,CjP°PeC,Cí, C,P°PeC- C¶Pe PrC-P°CjPμC¶ P°P±Ps P±P»CjPIP°PSPSC¶.

P>C-PeCzPIP°PSPSC¶

PJ CjP°P·C- PiPμCjPμPrPsP·CíPIP°PSPSC¶ CjPμPePsPjPμPSPPrPsPIP°PSC- CjPμC,PμP»CHPSPëPN PjPμPrPëC±PSPëPN PSP°PiP»C¶Pr C,P° CÍPëPjPiC,PsPjP°C,PëC±PSPμ P»C-PeCíPIP°PSPSC¶.

PμPsP±C-C±PSC- CjPμP°PeC†C-C—. B B B B B B B B B B B B B B B B

PkPëP¶C±PμPSP°PIPμPrPμPSC- PiPsP±C-C±PSC- CjPμP°PeC†C-C— CÍPëCÍC,PμPjP°C,PëP·PsPIP°PSPs PIC-PrPiPsPIC-PrPSPs PrPs PeP»P°CÍC-PI CÍPëCÍC,PμPj PsCjPiP°PSC-PI P·P° MedDRA C,P° C±P°CÍC,PsC,PsCH: PrCíP¶Pμ C±P°CÍC,Ps (≥ 1/10), C±P°CÍC,Ps (≥ 1/100 Bj" < 1/10), PSPμC±P°CÍC,Ps (≥ 1/1000 Bj"

< 1/100), CjC-PrPePs (≥ 1/10000 Bj" < 1/1000), PrCíP¶Pμ CjC-PrPePs (< 1/10000), C±P°CÍC,PsC,P° PSPμPIC-PrPsPjP° (PSPμ PjPsP¶CíC,CH P±CíC,Pë PsC†C-PSPμPSC- P·P° PSP°C¶IPSPëPjPë PrP°PSPëPjPë).

P— P±PsPeCz C-PjCzPSPSPsC— CÍPëCÍC,PμPjPë

PkPμC±P°CÍC,Ps: CÍPIPμCjP±C-P¶.

P C-PrPePs: PeCjPsPiPëPiBj™ C¶PSPeP°.

P"CíP¶Pμ CjC-PrPePs: P·PSPëP¶PμPSPSC¶ P°CjC,PμCjC-P°P»CHPSPsPiPs C,PëCÍPeCí.

РШР°СГГС,РсС,Р° РSPμPIC-PrPsPjP°: Р°PSPiC-РсPSPμPICГРсС,РёС±PSPёPNё РSP°Р±ГГСЦРРс С,Р° Р°PSP°С,,С-Р»Р°РёС,РёС±PSC- ГГРμР°РёС†С-С—, РIPёР»ГГС±Р°ГГС±Рё Р°PSP°С,,С-Р»Р°РёС,РёС±PSPёPNё СёРсРё.

Р— Р±РсРёСз РSPμГГРIPсРIPсС— СГРёСГГС,РμРjРё

РШР°СГГС,Рс: СГРсPSP»РёPIC-СГГС,СГ.

Р С-PrРёРс: Р·Р±СрРrР¶РμPSPSCЦ Р°Р±Рс РёРсГГРсС,РёРсС,ГГРёРIP°Р»Р° СГРiР»СГГС,Р°PSC-СГГС,СГ СГPIC-PrPsPjPsСГГС,С-.

РШР°СГГС,РсС,Р° РSPμPIC-PrPsPjP°: РSPμР·РrСрР¶Р°PSPSCЦ, РiРсРiБГ™ СЦР·Р°PSPμ Р°Р±Рс РSPμ РiРсРiБГ™ СЦР·Р°PSPμ Р· РIP°Р·РсРIP°РiР°Р»СГРSPсГГ РSPμРiГГРёС,РсРjPSC-СГГС,СГ РIPiГГРсРrРсРIP¶ РiРμГГСёРёС... РrРμРёС-Р»СГРРёРсС... С...РIPёР»РёРс РiС-СГР»СЦ РIPSCГГС,ГГС-СёPSCГРсРj'СЦР·РсРIPсРiРс РIPiРμРrРμPSPSCЦ, СГГСРrРсРjРё (РrРёРi. ГГРсР·РrС-Р» Б«РГСГРсР±Р»РёРIPсСГГС,С- Р°СГГС,РсСГГСРIP°PSPSCЦБ»).

Р— Р±РсРёСз С,ГГР°РIPSPсС— СГРёСГГС,РμРjРё

РШР°СГГС,Рс: РrС-Р°ГГРμСЦ, РiР°СГГС,ГГР°Р»РiС-СЦ (Р±С-Р»СГ СГ СёР»СГРSPёСГ).

РКРμС±Р°СГГС,Рс: PSCГРrРсС,Р°, Р±Р»ГГРIP°PSPSCЦ.

Р С-PrРёРс: РiРμС±С-СЦ.

Р— Р±РсРёСз РiРμС±С-РSPёРё С,Р° Р¶РсРiC±РсРIPёPIC-PrPSPёС... СёР»СЦС...С-Рi

РШР°СГГС,РсС,Р° РSPμPIC-PrPsPjP°: РjРμРrРёРёР°РjРμPSC,РсР·РSPμ СГГГР°Р¶РμPSPSCЦ РiРμС±С-РSPёРё (РrРёРi. ГГРсР·РrС-Р» Б«РГСГРсР±Р»РёРIPсСГГС,С- Р°СГГС,РсСГГСРIP°PSPSCЦБ»).

Р— Р±РсРёСз СёРёС-ГГРё С,Р° РiС-РrСёРёС-ГГРSPсС— РёР»С-С,РёРсРIPёPSPё

РКРμС±Р°СГГС,Рс: Р°Р»РμГГРiС-С±PSC- СёРёС-ГГРPSC- ГГРμР°РёС†С-С—.

РμРсРiC-PrPsPjP»РμPSPSCЦ РiГГРс РiС-PrРсР·ГГГРIP°PSC- РiРсР±С-С±PSC- ГГРμР°РёС†С-С—

РμРсРiC-PrPsPjP»РμPSPSCЦ РiГГРс РiС-PrРсР·ГГГРIP°PSC- РiРсР±С-С±PSC- ГГРμР°РёС†С-С— РiС-СГР»СЦ ГГРμС"СГГС,ГГР°С†С-С— Р»С-РёР°ГГСГГГРёРсРiРс Р·Р°СГРсР±СГ РjР°С" РIP°Р¶Р»РёРiРμ Р·РSP°С±РμPSPSCЦ. РiРμ РrР°С" Р·РjРсРiСГ РiГГРсРiРсРrРёС,Рё РjРсРSC-С,РсГГРёРSPi СГРiС-РIPIC-PrPSPсСёРμPSPSCЦ РёРсГГРёСГГ / ГГРёР·РёРё РiГГРё Р·Р°СГГС,РсСГГСРIP°PSPSC- С†СГРсРiРс Р»С-РёР°ГГСГГГРёРсРiРс Р·Р°СГРсР±СГ. РГРμРrРёС±PSPёРj С,Р° С,,Р°ГГРjР°С†РμPIC,РёС±PSPёРj РiГГР°С†С-РIPSPёРёР°Рj, Р° С,Р°РёРсР¶ РiР°С†С-С"РSC,Р°Рj Р°Р±Рс С—С...PSC-Рj Р°РёРсPSPSPёРj РiГГРμРrСГГС,Р°РIPSPёРёР°Рj СГР»С-Рr РiРсРiC-PrPsPjP»СЦС,Рё РiГГРс СГГГС- РIPёРiР°РrРёРё РiС-PrРсР·ГГГРIP°PSPёС... РiРсР±С-С±PSPёС... ГГРμР°РёС†С-РNё С,Р° PIC-РrСГГС,РSPсСГГС,С- РμС,,РμРёС,РёРIPSPсСГГС,С- Р»С-РёР°ГГСГГГРёРсРiРс Р·Р°СГРсР±СГ С±РμГГРμ· РГPIC,РсРjР°С,РёР·РсРIP°PSCГ С-PSC,,РсГГРjР°С†С-РNёPSCГ СГРёСГГС,РμРjСГ Р· С,,Р°ГГРjР°РёРсPSP°РiР»СЦРrСГ Р·Р° РiРсСГРёР»Р°Р°PSPSCЦРj:

<https://aisf.dec.gov.ua>.

PŷPµCḤPjC-PS PīCḤPēPrP°C,PSPsCÍC,C-.

2 CḤPsPePē.

PjPjPsPIPē P•P±PµCḤC-PiP°PSPSCİ.

P>C-PeP°CḤCÍCHbPePēPNē P•P°CÍC-P± PSPµ PIPēPjP°PiP°C” CÍPīPµC†C-P°P»CHbPSPēC...
CfPjPsPI P•P±PµCḤC-PiP°PSPSCİ. P—P±PµCḤC-PiP°C,Pē Cf PSPµPrPsCÍC,CfPīPSPsPjCf PrP»Cİ
PrC-C,PµPNē PjC-CÍC†C-.

-

PjPīP°PePsPIPeP°.

PµPs 14 C,P°P±P»PµC,PsPe Cf P±P»C-CÍC,PµCḤC-; PīPs 1 P±P»C-CÍC,PµCḤCf Cf
PeP°CḤC,PsPSPSC-PNē PePsCḤPsP±C†C-.

PљP°C,PµPiPsCḤC-Cİ PIC-PrPīCfCÍPeCf.

P—P° CḤPµC†PµPīC,PsPj.

P’PēCḤPsP±PSPēPe.

P’C-PsC,,P°CḤPj P>C,Pr / Biofarm Sp. z o.o.

**PњC-CÍC†PµP•PSP°C...PsPrP¶PµPSPSCİ PIPēCḤPsP±PSPēPeP° C,P°
P°PrCḤPµCÍP° PjC-CÍC†Cİ PīCḤPsPIP°PrP¶PµPSPSCİ PNēPsPiPs
PrC-CİP»CHbPSPsCÍC,C-.**

PICfP». P’P°P»P±P¶PēCÍPeP° 13, 60-198 PµPsP•PSP°PSCHb, PµPsP»CHbC‰P° / Walbrzyska str. 13,
60-198 Poznan, Poland.