

PiP»CᄡPeCfCᄡPsPePsPSbᄡ™ CᄡPiCfC”C,CHCfCᄡ PrPs SL18.0740, CᄡPePᄡPNᄡ PjP°C”
PᄡC,,PᄡPeC,PᄡPIPSC-CfC,CH PSPᄡP·PjC-PSPSPsPiPs C,C-PsPePsP»C...C-PePsP·PᄡPrCf,
C,P°PePᄡPj CᄡPᄡPSPsPj P·P°P±PᄡP·PᄡPᄡCfC”C,CHCfCᄡ C,,P°CᄡPjP°PePsP»PsPiC-CᄡPSP°
P°PeC,PᄡPIPSC-CfC,CH PᄡPᄡCᄡPsCᄡP°P»CHPSPsPiPs C,C-PsPePsP»C...C-PePsP·PᄡPrCf.
SL59.0955 C,P°PePsPᄡ PrPᄡPjPᄡC,Pᄡ»CᄡC”C,CHCfCᄡ PI
PrPᄡPrPᄡPjPᄡC,Pᄡ»C,C-PsPePsP»C...C-CᄡPᄡPS.

P°PᄡPIPᄡPrPᄡPSPSCᄡ

PᄡC-CfP»Cᄡ PᄡPᄡCᄡPsCᄡP°P»CHPSPsPiPs P·P°CfC,PsCfCfPIP°PSPSCᄡ PIPᄡPIPᄡPrPᄡPSPSCᄡ
PjPᄡC,P°P±PsP»C-C,C-PI PIC-PrP±CfPIP°C”C,CHCfCᄡ PᄡPᄡCᄡPᄡPIP°PᄡPSPs P· PeP°P»PsPj
(79 %) C,P° CfPᄡCᄡPᄡCᄡ bᄡ” 20%. P° PSPᄡP·PjC-PSPᄡPSPsPjCf PIPᄡPiP»CᄡPrC-
C,C-PsPePsP»C...C-PePsP·PᄡPr P· CfPᄡCᄡPᄡCᄡ P°P±Ps PeP°P»PsPj PSPᄡ
PIPᄡIPsPrPᄡC,CHCfCᄡ. PᄡPᄡC,P°P±PsP»C-C,Pᄡ SL18.0740 C,P° SL59.0955
PIPᄡCᄡPIP»CᄡCᄡC,CHCfCᄡ PI CfPᄡCᄡC- C- PeP°P»C-, Cf C,PsPNᄡ CᄡP°Cf CᄡPe
PrPᄡPrPᄡPjPᄡC,Pᄡ»C,C-PsPePsP»C...C-CᄡPᄡPS PIPᄡIPsPrPᄡC,CHCfCᄡ C,C-P»CHPePᄡ P·
PeP°P»PsPj.

PᄡC-CfP»Cᄡ PᄡPᄡCᄡPsCᄡP°P»CHPSPsPiPs P·P°CfC,PsCfCfPIP°PSPSCᄡ
C,C-PsPePsP»C...C-PePsP·PᄡPrCf PᄡPᄡCᄡC-PsPr PSP°PᄡC-PIPIPᄡPIPᄡPrPᄡPSPSCᄡ
PjPᄡC,P°P±PsP»C-C,Cf SL18.0740 CfC,P°PSPsPIPᄡC,CH 3,2bᄡ”7 PiPsPrPᄡPS, P°
PjPᄡC,P°P±PsP»C-C,Cf SL59.0955 bᄡ” Cf CfPᄡCᄡPᄡPrPSCᄡPsPjCf 0,8 PiPsPrPᄡPSPᄡ.

P°PsPeP»C-PSC-CᄡPSC- PrP°PSC- P· P±PᄡP·PᄡPᄡPePᄡ

PᄡPᄡC,P°P±PsP»C-C, P°PiP»C-PePsPS (3-PrPᄡPjPᄡC,Pᄡ»C,C-PsPePsP»C...C-CᄡPᄡPS-SL59.0955),
CᄡPePᄡPNᄡ CfC,PIPsCᄡCᄡC”C,CHCfCᄡ PᄡPᄡCᄡPᄡPIP°PᄡPSPs PiC-CfP»Cᄡ
PᄡPᄡCᄡPsCᄡP°P»CHPSPsPiPs P·P°CfC,PsCfCfPIP°PSPSCᄡ, C-PSPPrCfPeCfC”
PᄡPsCᄡPePsPrPᄡPᄡPSPSCᄡ C...CᄡPsPjPsCfPsPj in vitro (PjC-PeCᄡPsCᄡPrPᄡCᄡPSPᄡPNᄡ C,PᄡCfC,
PSP° P»C-PjC,,PsCᄡPᄡC,P°C... P»CᄡPrPᄡPSPᄡ) C,P° PᄡPsCᄡPePsPrPᄡPᄡPSPSCᄡ
C...CᄡPsPjPsCfPsPj in vivo (PjC-PeCᄡPsCᄡPrPᄡCᄡPSPᄡPNᄡ C,PᄡCfC, Cf PeC-CfC,PePsPIPsPjCf
PjPsP·PeCf C%ᄡCfCᄡC-PI PiC-CfP»Cᄡ PᄡPᄡCᄡPsCᄡP°P»CHPSPsPiPs
P·P°CfC,PsCfCfPIP°PSPSCᄡ). PᄡC-PeCᄡPsCᄡPrCᄡP° PIPᄡPSPᄡPeP»Pᄡ PiPsP»PsPIPSPᄡPj
CᄡPᄡPSPsPj PIPSP°CfP»C-PrPsPe C...CᄡPsPjPsCfPsPjPSPsC— PIC,CᄡP°C,Pᄡ
(CᄡPᄡPSC,CᄡPsPjPᄡCᄡPSPs-PiPsP·PᄡC,PᄡPIPSC- PjC-PeCᄡPsCᄡPrCᄡP° PiC-CfP»Cᄡ
C,,P°CᄡP±CfPIP°PSPSCᄡ CᄡPᄡPSC,CᄡPsPjPᄡCᄡ FISH P°P±Ps CREST), C%ᄡPs CfPIC-PrCᄡPᄡC,CH
PiCᄡPs P°PSPᄡCfPiPᄡPSPSC- PIP»P°CfC,PᄡPIPSCfC,C-. PᄡPSPᄡCfPiPᄡPSPSPᄡPNᄡ PᄡC,,PᄡPeC,
SL59.0955 CfPᄡPsCfC,PᄡCᄡC-PiP°PICfCᄡ PiCᄡPᄡ PePsPSCᄡPᄡPSC,CᄡP°CᄡC-CᄡC... in vitro C-
PiCᄡPᄡ PᄡPeCfPiPsP·PᄡCᄡC— PI C,PᄡCfC,C- in vivo, P±P»PᄡP·CHPePᄡC... PrPs C,PᄡC..., C%ᄡPs
CfPiPsCfC,PᄡCᄡC-PiP°CᄡC,CHCfCᄡ Cf PiP»P°P·PjC- PeCᄡPsPIC- P»CᄡPrPᄡPSPᄡ Cf
C,PᄡCᄡPᄡPiPᄡPIC,PᄡCᄡPSPᄡC... PrPsP·P°C... 8 PjPi PrPIC-CᄡC- PSP° PrPsP±Cf
PᄡPᄡCᄡPsCᄡP°P»CHPSPs. PᄡPSPᄡCfPiPᄡPSPSPᄡPNᄡ PᄡC,,PᄡPeC, Cf PeP»C-C,PᄡPSP°C..., C%ᄡPs
PrC-P»CᄡC,CHCfCᄡ, PjPsPᄡPᄡ CfPᄡCᄡPᄡPᄡPSPᄡC,Pᄡ P°PSPᄡCfPiP»PsC—PrC-Cᄡ
PeP»C-C,PᄡPS. PᄡPSPᄡCfPiP»PsC—PrC-Cᄡ - CᄡPᄡ P·PjC-PSP° PeC-P»CHPePsCfC,C-
C...CᄡPsPjPsCfPsPj C- PIC,CᄡP°C,P° PiPᄡC,PᄡCᄡPsP·PᄡPiPsC,PSPsCfC,C-, CᄡPeP°
PIPᄡP·PSP°PSP° C,,P°PeC,PsCᄡPsPj CᄡPᄡP·PᄡPeCf C,PᄡCᄡP°C,PsPiPᄡPSPSPsCfC,C-,
PᄡPjP±CᄡC-PsPSP°P»CHPSPsC— C,PsPeCfPᄡCᄡPSPsCfC,C- / CfPiPsPSC,P°PSPSPᄡC...
P°P±PsCᄡC,C-PI C,P° PiPsPiC-CᄡCᄡPᄡPSPSCᄡ CᄡPsP»PsPIC-CᄡPsC—
C,,PᄡCᄡC,Pᄡ»CHPSPsCfC,C- (PiCᄡPᄡ CfCᄡP°PᄡPᄡPSPSC- CfC,P°C,PᄡPIPᄡC... PeP»C-C,PᄡPS),
P° C,P°PePsPᄡ PiPsC,PᄡPSCᄡC-PNᄡPSPᄡPj C,,P°PeC,PsCᄡPsPj CᄡPᄡP·PᄡPeCf CᄡPsP·PIPᄡC,PeCf
CᄡP°PeCf (PiCᄡPᄡ CfCᄡP°PᄡPᄡPSPSC- CfPsPjP°C,PᄡCᄡPSPᄡC... PeP»C-C,PᄡPS).
PᄡP°CᄡPIPSC-CfC,CH PjPᄡC,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»C†
PIPSCrC,C†C-C€PSC†Pj'ClIP·PsPIPsPiPs PIPIPμPrPμPSPSC† PSPμ
PrPsC†P»C-PrP¶C†PIP°P»P°C†C†, C,PsPjC† P№PsPiPs CrC,PIPsC†PμPSPSC† PiC†Pë
C,P°PePsPjC† C†PiPsC†PsP±C- PIPIPμPrPμPSPSC† PSPμ PjPsP¶PSP° PIPëPeP»C†C†PëC,Pë.
PÿC-PsPePsP»C...C-PePsP·PëPr C,P° P№PsPiPs PjPμC,P°P±PsP»C-C,Pë PiC†PSC†PIP»C†C†C,C†
P°PSPμC†PiPμPSPSC† P°PeC,PëPIPSC-C†C,C† PiC†Pë C†C-P·PSPëC... C†C-PIPSC†C...
PePsPSC†PμPSC,C†P°C†C-C-, C%Ps PIPëP·PSP°PSPs C,,P°PeC,PsC†Pj C†PëP·PëPeC†
P·PjC-PSPë C,,PμC†C,PëP»C†PSPsC†C,C- P»C†PrPëPSPë.

PμP°PSC†PμC†PjPsPiPμPSPSPëP№ PiPsC,PμPSC†C-P°P» PSPμ PsC†C-PSC†PIP°PIC†C†.

PμP»iPSiC†PSi C...P°C†P°PeC,PμC†PëC†C,PëPePë.

PμPsPeP°P·P°PSPSC†.

P†P†B†™ C†PIP°PSC,PSP° C,PμC†P°PiC-C† P±PsP»C-C†PSPëC... PjB†™ ClIP·PsPIPëC...
PePsPSC,C†P°PeC,C†C† C† PIPëPiP°PrPeP°C... PiPsC†C,C†PëC... PiP°C,PsP»PsPiC-P№
C...C†PμP±C,P° C† PrPsC†PjPsC†P»PëC... C,P° PiC-PrP»C-C,PeC-PI PIC-PePsPj PIC-Pr 16
C†PjPsPeC-PI.

PμC†PjPsC,PëPiPsPeP°P·P°PSPSC†.

PÿC-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%PμPSPsC† C†C†C,P»PëPIC-C†C,C† PrPs
PrC-C†C†PsC— C†PμC†PsPIPëPSPë P°P±Ps PrPs P±C†PrC†C-C†PëPsC— P·
PrPsPiPsPjC-P¶PSPëC... C†PμC†PsPIPëPS P»C-PeP°C†C†C†PëPePsPiPs P·P°C†PsP±C†;
- PiP°C†C-C°PSC,P°Pj, ClIPeC- C†C,C†P°P¶PrP°C†C,C† PSP°B P†B†™ ClIP»PëP№
PiP°C†P°P»C-C†, Pj'ClIP·PsPIC† PiC-PiPsC,PsPSC-C†;
- PiC-Pr C†P°C† PIP°PiC-C,PSPsC†C,C-;-B-
- C† PiPμC†C-PsPr PiPsPrC†PIP°PSPSC† PiC†C†PrPrC†;
- P¶C-PSPeP°Pj C†PμPiC†PjPsPrC†PeC,PëPIPSPsPiPs PIC-PeC†, ClIPeC- PSPμ
PIPëPePsC†PëC†C,PsPIC†C†C,C† PSP°P»PμP¶PSC- P·P°C†PsP±Pë PePsPSC,C†P°C†PμPiC†C-C—
PiC-Pr C†P°C† P»C-PeC†PIP°PSPSC† P»C-PeP°C†C†C†PëPëPj P·P°C†PsP±PsPj PÿC-PsPSPμPeC†
C,P° PiC†PjPsC,C†PiPsPj PsPrPSPsPiPs PjC-C†C†C†C† PiC-C†P»C† PiC†PëPiPëPSPμPSPSC†
P»C-PeC†PIP°PSPSC† (PrPëPI. C†PjPsP·PrC-P»Pë B«P†C†PsP±P»PëPIPSC†C,C-
P·P°C†C,PsC†C†PIP°PSPSC†B»B C,P° B«P—P°C†C,PsC†C†PIP°PSPSC† C† PiPμC†C-PsPr
PIP°PiC-C,PSPsC†C,C- P°P±Ps PiPsPrC†PIP°PSPSC† PiC†C†PrPrC†B»);
- C†PsP»PsPIC-PeP°Pj, ClIPeC- PSPμ PIPëPePsC†PëC†C,PsPIC†C†C,C† PSP°P»PμP¶PSC-
P·P°C†PsP±Pë PePsPSC,C†P°C†PμPiC†C-C— PiC-Pr C†P°C† P»C-PeC†PIP°PSPSC†
P»C-PeP°C†C†C†PëPëPj P·P°C†PsP±PsPj PÿC-PsPSPμPeC† C,P° PiC†PjPsC,C†PiPsPj 3
PjC-C†C†C†C†-PI PiC-C†P»C† PiC†PëPiPëPSPμPSPSC† P»C-PeC†PIP°PSPSC† (PrPëPI.
C†PjPsP·PrC-P»Pë B«P†C†PsP±P»PëPIPSC†C,C-B P·P°C†C,PsC†C†PIP°PSPSC†B» C,P°
B«P—P°C†C,PsC†C†PIP°PSPSC† C† PiPμC†C-PsPr PIP°PiC-C,PSPsC†C,C- P°P±Ps

PiPsPrCfPIP°PSPSCl PiCfCfPrPrCbB»).

P·P·P°C°PjPsPrC-Cl P· C-PSC€P€PjP€ P»C-PeP°CfCfCbPeP€PjP€ P·P°CfPsP±P°PjP€ C,P° C-PSC€C- PIP€PrP€ PIP·P°C°PjPsPrC-PN.

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

PfCfPsP±P»P€PIPsCfC,C- P·P°CfC,PsCfCzPIP°PSPSCl.

PJ CfP°P·C- PrC-P°CfPµC— PíC-CfP»Cl PíPµCfPsCfP°P»CbPSPsPiPs PíCfP€PN€PsPjCf PrPs·Cf CfP»C-Pr P·PjPµPSC€P€C,P€ PSP°P»PµP¶PSP€Pj C†P€PSPsPj.

PµPsPIC-PrPsPjP»ClP»PsCfCf PíCfPs PIP€PíP°PrPeP€ CfCfP°P¶PµPSPSCl PíPµC†C-PSPeP€ PíC-CfP»Cl P·P°CfC,PsCfCfPIP°PSPSCl C,C-PsPePsP»C...C-PePsP·P€PrCf. PŸPµCfPN€PsP·PSC- PIP€PíP°PrPeP€ (PSP°PíCfP€PeP»P°Pr,B C,,CfP»CbPjC-PSP°PSC,PSP€PN€ PíPµPíP°C,P€C,) P±CfP»P€ P·P°CfPµC°CfC,CfPsPIP°PSC- Cf PíP°C†C-C°PSC,C-PI, ClPeC- PsPrPSPsC†P°CfPSPs P·C,C-PsPePsP»C...C-PePsP·P€PrPsPj PíCfP€PN€PjP°P»P€ PSPµCfC,PµCfPsC—PrPSC- PíCfPsC,P€P·P°PíP°P»CbPSC- P·P°CfPsP±P€ P°P±Ps PíP°CfP°C†PµC,P°PjPsP». PµP°C†C-C°PSC,P°Pj CfP»C-Pr PíCfP€PíP€PSP€C,P€ P»C-PeCfPIP°PSPSCl C,P° P·PIPµCfPSCfC,P€CfCl PrPs P»C-PeP°CfCl, ClPeC%Ps Cf PSP€C... P·Bf™ ClPIP»ClC,CbCfCl PsP·PSP°PeP€ C†P€ CfP€PjPíC,PsPjP€ CfCfP°P¶PµPSPSCl PíPµC†C-PSPeP€ (PrP€PI. CfPsP·PrC-P» B«PµPsP±C-C†PSC- CfPµP°PeC†C-C—B»).

PŸC-PsPePsP»C...C-PePsP·P€Pr PjPsP¶Pµ CfPíCfPsPIPsPeCfPIP°C,P€ CfCfPrPsPjP€, PsCfPsP±P»P€PIPs Cf PíP°C†C-C°PSC,C-PI P· PµPíC-P»PµPíCfC-C°Cb P°P±Ps Cf PíP°C†C-C°PSC,C-PI, ClPeC- PíPµCfPµP±CfPIP°CbC,Cb Cf PíCfCfPíC- CfP€P·P€PeCf PIP€PSP€PePSPµPSPSCl CfCfPrPsPj. P°P€PSP€PePSPµPSPSCl CfCfPrPsPj PIP€PjP°PíP°C° PíCfP€PíP€PSPµPSPSCl P»C-PeCfPIP°PSPSCl (PrP€PI. CfPsP·PrC-P» B«PµPsP±C-C†PSC- CfPµP°PeC†C-C—B»).

PfP°PeCfP€PjP°P»CbPSP° PrPsP±PsPIP° PrPsP·P° PSPµ PíPsPIP€PSPSP° PíPµCfPµPIP€C%CfPIP°C,P€ 16 PjPi C- PíPsPIP€PSPSP° P±CfC,P€ CfPsP·PíPsPrC-P»PµPSP° PSP° PrPIP° PíCfP€PN€PsPjP€ P· C-PSC,PµCfPIP°P»PsPj Cf 12 PíPsPrP€PS.

PJ CfP°P·C- PíCfPsPíCfCfPeCf C†PµCfPíPsPIPsC— PrPsP·P€ CfP»C-Pr PíPµCfPµPN€C,P€ PrPs PSP°CfC,CfPíPSPsC—, CfPSP€PeP°CbC†P€ PSP°PrC,Ps PePsCfPsC,PePsPiPs C-PSC,PµCfPIP°P»Cf PjC-P¶ PíCfP€PN€PsPjP°PjP€.

P°PµPSPsC,PsPeCfP€C†PSP€PN€ PíPsC,PµPSC†C-P°P»

PfPµC,P°P±PsP»C-C, C,C-PsPePsP»C...C-PePsP·P€PrCf (SL59.0955), P·PíC-PrPSPs PrP°PSP€C... PrPsPeP»C-PSC-C†PSP€C... PrPsCfP»C-PrP¶PµPSCb CfPíCfP€C†P€PSClC° P°PSPµCfPíP»PsC—PrC-Cb (P·PjC-PSP° PeC-P»CbPePsCfC,C- C...CfPsPjPsCfPsPj Cf PeP»C-C,P€PSP°C..., C%Ps PrC-P»ClC,CbCfCl) Cf PePsPSC†PµPSC,CfP°C†C-ClC..., P±P»P€P·CbPeP€C... PrPs CfC-PIPSCl PIPíP»P€PICf PSP° P»CbPrP€PSCf, ClPeP€PN€ CfPíPsCfC,PµCfC-PíP°PICfCl PíCfP€ PrPsP·P°C... 8

PjPi PrPIC-C±C- PSP° PrPsP±Cf PīPμCḥPsCḥP°P»CHḥPSPs (PrPēPI. CḥPsP·PrC-P»
B«PαP°CḥPjP°PePsP»PsPiC-C±PSC- PIP»P°CfC,PēPIPsCfC,C-B»).

PḥPSPμCfPīP»PsC-PrC-Cf PIPiP°P¶P°C”C,CHḥCfCf C,,P°PeC,PsCḥPsPj CḥPēP·PēPeCf
C,PμCḥP°C,PsPiPμPSPSPsCfC,C-, C,PsPeCfPēC±PSPsCfC,C- PrP»Cf
PμPjP±CḥC-PsPSP°/PīP»PsPrP°, PIPēPePēPrPSCf, PīPsCḥCfC€PμPSPSCf
C±PsP»PsPIC-C±PsC- C,,PμCḥC,PēP»CHḥPSPsCfC,C- C,P° PīPsC,PμPSC†C-PN°PSPēPj
C,,P°PeC,PsCḥPsPj CḥPēP·PēPeCf PIPēPSPēPePSPμPSPSCf CḥP°PeCf. Pj CfPePsCfC,C-
PīCḥPsC,,C-P»P°PeC,PēPePē CfP»C-Pr CfPSPēPeP°C,Pē PīPμCḥPμPIPēC%PμPSPSCf
CḥPμPePsPjPμPSPPrPsPIP°PSPsC- PrPsP·Pē P»C-PeP°CḥCfCHḥPePsPiPs P·P°CfPsP±Cf
P°P±Ps C,CḥPēPIP°P»PsPiPs P·P°CfC,PsCfCfPIP°PSPSCf (PrPēPI. CḥPsP·PrC-P»
B«PŸPīPsCfC-P± P·P°CfC,PsCfCfPIP°PSPSCf C,P° PrPsP·PēB»).

PμP°C†C-C”PSC,Pē PīPsPIPēPSPSC- P±CfC,Pē PrPsP±CḥPμ PīPsC-PSC,,PsCḥPjPsPIP°PSC-
C%PsPrPs PīPsC,PμPSC†C-PN°PSPēC... CḥPēP·PēPeC-PI PrP»Cf PjPsP¶P»PēPIPsC-
PIP°PiC-C,PSPsCfC,C- C,P° C%PsPrPs PμC,,PμPeC,PēPIPSPēC... P·P°CfPsP±C-PI
PePsPSC,CḥP°C†PμPīC†C-C-, CfPeC- CfP»C-Pr P·P°CfC,PsCfPsPICfPIP°C,Pē (PrPēPI.
CḥPsP·PrC-P»Pē B«PμCḥPsC,PēPīPsPeP°P·P°PSPSCfB» C,P° B«P—P°CfC,PsCfCfPIP°PSPSCf Cf
PīPμCḥC-PsPr PIP°PiC-C,PSPsCfC,C- P°P±Ps PiPsPrCfPIP°PSPSCf PiCḥCfPrPrCḥB»).

P>C-PeP°CḥCfCHḥPePēPN° P·P°CfC-P± PjC-CfC,PēC,CHḥ P»P°PeC,PsP·Cf, C,PsPjCf
PīP°C†C-C”PSC,P°Pj P· CḥC-PrPeC-CfPSPēPjPē CfPīP°PrPePsPIPēPjPē C,,PsCḥPjP°PjPē
PSPμPīPμCḥPμPSPsCfPēPjPsCfC,C- PīP°P»P°PeC,PsP·Pē, PSPμPrPsCfC,P°C,PSC-CfC,CH
P»P°PeC,P°P·Pē P°P±Ps CfPēPSPrCḥPsPjPsPj PīP»CḥPePsP·Ps-PiP°P»P°PeC,PsP·PSPsC-
PjP°P»CHḥP°P±CfPsCḥP±C†C-C- PSPμ CfP»C-Pr PN°PsPiPs P·P°CfC,PsCfPsPICfPIP°C,Pē.

*P—P°CfC,PsCfC€PIP°PSPSCf C€ PīPμCḥC-PsPr PIP°PiC-C,PSPsCfC,C- P°P±Ps
PiPsPrC€PIP°PSPSCf PiCḥC€PrPrCḥ.*

PḥPsPSC,CḥP°C†PμPīC†C-Cf Cf P¶C-PSPsPe C- C±PsP»PsPIC-PeC-PI

PŸC-PsPSPμPeCf PīCḥPsC,PēPīPsPeP°P·P°PSPēPN° P¶C-PSPeP°Pj
CḥPμPīCḥPsPrCfPeC,PēPIPSPsPiPs PIC-PeCf C,P° C±PsP»PsPIC-PeP°Pj, CfPeC- PSPμ
PIPēPePsCḥPēCfC,PsPICfCḥC,CH PμC,,PμPeC,PēPIPSC- P·P°CfPsP±Pē
PePsPSC,CḥP°C†PμPīC†C-C- (PrPēPI. CḥPsP·PrC-P»
B«PμCḥPsC,PēPīPsPeP°P·P°PSPSCfB»).

PḤPμCḥPμP· P°PSPμCfPiPμPSPSPēPN° PīPsC,PμPSC†C-P°P»
C,C-PsPePsP»C...C-PePsP·PēPrCf C,P° PN°PsPiPs PjPμC,P°P±PsP»C-C,C-PI P¶C-PSPeP°Pj
CḥPμPīCḥPsPrCfPeC,PēPIPSPsPiPs PIC-PeCf CfP»C-Pr P·P°CfC,PsCfPsPICfPIP°C,Pē
PμC,,PμPeC,PēPIPSC- P·P°CfPsP±Pē PePsPSC,CḥP°C†PμPīC†C-C- PīC-Pr C±P°Cf
P»C-PeCfPIP°PSPSCf C,C-PsPePsP»C...C-PePsP·PēPrPsPj C,P° PīCḥPsC,CfPiPsPj 1
PjC-CfCfC†Cf PīC-CfP»Cf P·P°PIPμCḥC€PμPSPSCf P»C-PeCfPIP°PSPSCf (PrPēPI.
CḥPsP·PrC-P» B«PαP°CḥPjP°PePsP»PsPiC-C±PSC- PIP»P°CfC,PēPIPsCfC,C-B»).

PḤPsP»PsPIC-PePē PīPsPIPēPSPSC- PIPēPePsCḥPēCfC,PsPICfPIP°C,Pē
PμC,,PμPeC,PēPIPSC- P·P°CfPsP±Pē PePsPSC,CḥP°C†PμPīC†C-C- PīC-Pr C±P°Cf
P»C-PeCfPIP°PSPSCf C,C-PsPePsP»C...C-PePsP·PēPrPsPj C- PīCḥPsC,CfPiPsPj 3
PjC-CfCfC†C-PI PīC-CfP»Cf P·P°PIPμCḥC€PμPSPSCf P»C-PeCfPIP°PSPSCf (PrPēPI.

СҫPsP·PrC-P» B«PҫСҫPsC, PëPіPsPeP°P·P°PSPSCІB»).

P°PіC-C, PSC-CГC, CH

P†PSC,, PsСҫPjP°C†C-Cl C%PsPrPs P·P°CГC, PsCГCfPIP°PSPSCІ C, C-PsPePsP»C...C-PePsP·PëPrCf PIP°PіC-C, PSPëPj P¶C-PSPeP°Pj PsP±PjPµP¶PµPSP°.

P°PsCГP»C-PrP¶PµPSPSCІ PSP° C, PIP°СҫPëPSP°C... PіPsPeP°P·P°P»PëB C, PµСҫP°C, PsPіPµPSPSPëPµ PIPіP»PëPI C†СҫPsPіPs PіСҫPµPіP°СҫP°C, Cf (PrPëPI. СҫPsP·PrC-P» B«P°СҫPjP°PePsP»PsPіC-C†PSC- PIP»P°CГC, PëPIPсCГC, C-B»).

PҫC-PsPSPµPeCГ PіСҫPsC, PëPіPsPeP°P·P°PSPëPµ PіC-Pr C†P°CГ PIP°PіC-C, PSPсCГC, C- (PrPëPI. СҫPsP·PrC-P» B«PҫСҫPsC, PëPіPsPeP°P·P°PSPSCІ).

PµPµСҫC-PsPr PіPsPrCfPIP°PSPSCІ PіСҫCfPrPrСҫ

P—P°CГC, PsCГCfPIP°PSPSCІ C, C-PsPePsP»C...C-PePsP·PëPrCf PіСҫPsC, PëPіPsPeP°P·P°PSPµ Cf PіPµСҫC-PsPr PіPsPrCfPIP°PSPSCІ PіСҫCfPrPrСҫ, PsCГPeC-P»СҫPëPë PIC-PS PіСҫPsPSPëPeP°C” Cf PіСҫCfPrPSPµ PjPsP»PsPePs (PrPëPI. СҫPsP·PrC-P» PµСҫPsC, PëPіPsPeP°P·P°PSPSCІB»).

P°PµСҫC, PëP»СҫPSC-CГC, CH

PҫC-PsPePsP»C...C-PePsP·PëPr C, P° PµPsPіPs PjPµC, P°P±PsP»C-C, Pë C†PëPSCІC, CH P°PSPµCfPіPµPSPSCf PrC-Сҫ PіСҫPë СҫC-P·PSPëC... СҫC-PIPSCІC... PePsPSC†PµPSC, СҫP°C†C-C—, C%Ps C” C,, P°PeC, PsСҫPsPj СҫPëP·PëPeCf PіPsСҫCfCєPµPSPSCІ C,, PµСҫC, PëP»СҫPSPсCГC, C- Cf P»СҫPrPëPSPë (PrPëPI. СҫPsP·PrC-P» B«P°СҫPjP°PePsP»PsPіC-C†PSC- PIP»P°CГC, PëPIPсCГC, C-B»).

P—PrP°C, PSC-CГC, CH PIPіP»PëPIP°C, Pë PSP° CєPIPëPrPeC-CГC, CH СҫPµP°PeC†C-C— PіСҫPë PePµСҫCzPIP°PSPSC- P°PIC, PsC, СҫP°PSCГPіPsСҫC, PsPj P°P±Ps C-PSCєPëPjPë PjPµC...P°PSC-P·PjP°PjPë.

P°P°PSPëC... PeP»C-PSC-C†PSPëC... PrPsCГP»C-PrP¶PµPSCҫ, ClPeC- PIPeP°P·CfСҫC, CH PSP° P·PrP°C, PSC-CГC, CH C, C-PsPePsP»C...C-PePsP·PëPrCf PIPіP»PëPIP°C, Pë PSP° PePµСҫCfPIP°PSPSCІ P°PIC, PsC, СҫP°PSCГPіPsСҫC, PsPj P°P±Ps C-PSCєPëPjPë PjPµC...P°PSC-P·PjP°PjPë, PSPµPjP°C”.

PҫCfPeC-P»СҫPëPë CГPsPSP»PëPIC-CГC, CH C” PіPsCєPëСҫPµPSPëPj ClPIPëC%PµPj, C†Pµ CГP»C-Pr PICҫP°C...CfPIP°C, Pë PіC-Pr C†P°CГ PePµСҫCfPIP°PSPSCІ C, СҫP°PSCГPіPsСҫC, PSPëPjPë P·P°CГPsP±P°PjPë P°P±Ps СҫPsP±PsC, Pë P· PjPµC...P°PSC-P·PjP°PjPë.

PҫPіPsCГC-P± P·P°CГC, PsCГCzPIP°PSPSCІ C, P° PrPsP·Pë.

PҫPіPsCГC-P± P·P°CГC, PsCГCfPIP°PSPSCІ

PµСҫPëPµPjP°C, Pë PіPµСҫPsСҫP°P»СҫPSPs, P·P°PіPëPIP°СҫC†Pë CГPeP»ClPSPePsСҫ

PIPsPrPë.

P"PsP·Pë

P PµPePsPjPµPSPPrPsPIP°PSP° PrPsP·P° CÍC,P°PSPsPIPëC,CH 8 PjPi PePsP¶PSC- 12 PiPsPrPëPS (PrPsP·P° 16 PjPi C,C-PsPePsP»C...C-PePsP·PëPrCr C" C,P°PePsP¶ PjP°PeCÍPëPjP°P»CHPSPsCH PSP° PrPsP±Cr). PÿCHPëPIP°P»C-CÍC,CH P»C-PeCfPIP°PSPSC¶ PSPµ PiPsPIPëPSPSP° PiPµC¶PµPIPëC%oCrPIP°C,Pë 7 PrPSC-PI PiPsCÍPíC-P»CH. PÿP»C-Pr CrPSPëPeP°C,Pë PiPµC¶PµPIPëC%oPµPSPSC¶ CHPµPePsPjPµPSPPrPsPIP°PSPsC— PrPsP·Pë P°P±Ps C,CHPëPIP°P»PsPiPs P·P°CÍC,PsCÍCrPIP°PSPSC¶ (PrPëPI. CHPsP·PrC-P» B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCrPIP°PSPSC¶B»).

P"C-C,Pë.

P>C-PeP°C¶CÍCHPePëPNë P·P°CÍC-P± PiCHPsC,PëPiPsPeP°P·P°PSPëPNë PrC-C,C¶Pj C,P° PiC-PrP»C-C,PeP°Pj PIC-PePsPj PrPs 16 CHPsPeC-PI.

PµPµC¶PµPrPsP·CzPIP°PSPSC¶.

PÿPëPjPiC,PsPjPë

P¶PsP¶P»PëPIC- PiCHPsC¶PIPë P· P±PsPeCr C€P»CrPSPePsPIPs-PePëC€PePsPIPsPiPs C,CHP°PeC,Cr, C,P°PeC- C¶Pe PrC-P°CHPµC¶ P°P±Ps P±P»CHPIP°PSPSC¶.

P>C-PeCzPIP°PSPSC¶

PJ CHP°P·C- PiPµC¶PµPrPsP·CrPIP°PSPSC¶ CHPµPePsPjPµPSPPrPsPIP°PSC- CHPµC,PµP»CHPSPëPNë PjPµPrPëC±PSPëPNë PSP°PiP»C¶Pr C,P° CÍPëPjPiC,PsPjP°C,PëC±PSPµ P»C-PeCfPIP°PSPSC¶.

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

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

< 1/100), CHC-PrPePs (≥ 1/10000 B¶" < 1/1000), PrCrP¶Pµ CHC-PrPePs (< 1/10000), C±P°CÍC,PsC,P° PSPµPIC-PrPsPjP° (PSPµ PjPsP¶CfC,CH P±CrC,Pë PsC†C-PSPµPSC- P·P° PSP°C¶IPSPëPjPë PrP°PSPëPjPë).

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

PkPµC±P°CÍC,Ps: CÍPIPµCHP±C-P¶.

P C-PrPePs: PeCHPsPiPëPiB¶™ C¶PSPeP°.

P"CrP¶Pµ CHC-PrPePs: P·PSPëP¶PµPSPSC¶ P°CHC,PµCHC-P°P»CHPSPsPiPs C,PëCÍPeCr.

ПШ°СГЦ,PsC,P° PSPμPIC-PrPsPjP°: P°PSPiC-PsPSPμPICПsC,PëC±PSPëPNë PSP°P±CПCЦPе C,P° P°PSP°C,,C-P»P°PeC,PëC±PSC- CПPμP°PeC†C-C—, PIPeP»CПC±P°CПC±Pë P°PSP°C,,C-P»P°PeC,PëC±PSPëPNë CëPsPe.

P— P±PsPeCé PSPμCПPIPSPsC— CГPëCГЦ,PμPjPë

ПШ°СГЦ,Ps: CГPsPSP»PëPIC-CГЦ,СН.

P C-PrPePs: P·P±CрPrP¶PμPSPSCЦ P°P±Ps PePsCПPsC,PePsC,CПPëPIP°P»P° CГPiP»CГC,P°PSC-CГЦ,СН CГPIC-PrPsPjPsCГЦ,C-.

ПШ°СГЦ,PsC,P° PSPμPIC-PrPsPjP°: PSPμP·PrCрP¶P°PSPSCЦ, PïPsPIвП™ CЦP·P°PSPμ P°P±Ps PSPμ PïPsPIвП™ CЦP·P°PSPμ P· PIP°P·PsPIP°PiP°P»СНPSPsCП PSPμPiCПPëC,PsPjPSC-CГЦ,СН PIPiCПPsPrPsPIP¶ PïPμCПCëPëC... PrPμPeC-P»СНPePsC... C...PIPëP»PëPS PiC-CГP»CЦ PIPSCрC,CПC-CëPSCПPsPj'CЦP·PsPIPsPiPs PIPIPμPrPμPSPSCЦ, CГCрPrPsPjPë (PrPëPI. CПPsP·PrC-P» B«PкCГPsP±P»PëPIPsCГЦ,C- P·P°CГЦ,PsCГCрPIP°PSPSCЦB»).

P— P±PsPeCé C,CПP°PIPSPsC— CГPëCГЦ,PμPjPë

ПШ°СГЦ,Ps: PrC-P°CПPμCЦ, PiP°CГЦ,CПP°P»PiC-CЦ (P±C-P»СН Cр CëP»CрPSPeCр).

РкPμC±P°CГЦ,Ps: PSCрPrPsC,P°, P±P»СНPIP°PSPSCЦ.

P C-PrPePs: PiPμC±C-CЦ.

P— P±PsPeCé PiPμC±C-PSPePë C,P° P¶PsPIC±PsPIPëPIC-PrPSPëC... CëP»CЦC...C-PI

ПШ°СГЦ,PsC,P° PSPμPIC-PrPsPjP°: PjPμPrPëPeP°PjPμPSC,PsP·PSPμ CрCПP°P¶PμPSPSCЦ PïPμC±C-PSPePë (PrPëPI. CПPsP·PrC-P» B«PкCГPsP±P»PëPIPsCГЦ,C- P·P°CГЦ,PsCГCрPIP°PSPSCЦB»).

P— P±PsPeCé CëPeC-CПPë C,P° PiC-PrCëPeC-CПPSPsC— PeP»C-C,PePsPIPëPSPë

РкPμC±P°CГЦ,Ps: P°P»PμCПPiC-C±PSC- CëPeC-CПPSC- CПPμP°PeC†C-C—.

PμPsPIC-PrPsPjP»PμPSPSCЦ PiCПPs PiC-PrPsP·CПCПPIP°PSC- PïPsP±C-C±PSC- CПPμP°PeC†C-C—

PμPsPIC-PrPsPjP»PμPSPSCЦ PiCПPs PiC-PrPsP·CПCПPIP°PSC- PïPsP±C-C±PSC- CПPμP°PeC†C-C— PiC-CГP»CЦ CПPμC”CГЦ,CПP°C†C-C— P»C-PeP°CПCГCПPePsPiPs P·P°CГPsP±Cр PjP°C” PIP°P¶P»PëPIPμ P·PSP°C±PμPSPSCЦ. PïPμ PrP°C” P·PjPsPiCр PiCПPsPIPsPrPëC,Pë PjPsPSC-C,PsCПPëPSPi CГPiC-PIPIC-PrPSPsCëPμPSPSCЦ PePsCПPëCГЦ,СН / CПPëP·PëPe PiCПPë P·P°CГЦ,PsCГCрPIP°PSPSC- C†СНPsPiPs P»C-PeP°CПCГCПPePsPiPs P·P°CГPsP±Cр. PкPμPrPëC±PSPëPj C,P° C,,P°CПPjP°C†PμPIC,PëC±PSPëPj PiCПP°C†C-PIPSPëPeP°Pj, P° C,P°PePsP¶ PïP°C†C-C”PSC,P°Pj P°P±Ps C—C...PSC-Pj P·P°PePsPSPSPëPj PiCПPμPrCГЦ,P°PIPSPëPeP°Pj CГP»C-Pr PïPsPIC-PrPsPjP»CЦC,Pë PiCПPs CрCГЦ- PIPëPiP°PrPePë PiC-PrPsP·CПCПPIP°PSPëC... PïPsP±C-C±PSPëC... CПPμP°PeC†C-PNë C,P° PIC-PrCГCрC,PSPsCГЦ,C- PμC,,PμPeC,PëPIPSsCГЦ,C- P»C-PeP°CПCГCПPePsPiPs P·P°CГPsP±Cр C±PμCПPμP· PкPIC,PsPjP°C,PëP·PsPIP°PSCр C-PSC,,PsCПPjP°C†C-PNëPSCр CГPëCГЦ,PμPjCр P· C,,P°CПPjP°PePsPSP°PiP»CЦPPrCр P·P° PïPsCГPëP»P°PSPSCЦPj:

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

PŷPµCŃPjC-PS PİCŃPëPrP°C,PSPsCÍC,C-.

2 CŃPsPePë.

PjPjPsPIPë P·P±PµCŃC-PiP°PSPSCİ.

P>C-PeP°CŃCÍCŃPëPëPNë P·P°CÍC-P± PSPµ PIPëPjP°PiP°C” CÍPİPµC†C-P°P»CŃPSPëC...
CfPjPsPI P·P±PµCŃC-PiP°PSPSCİ. P—P±PµCŃC-PiP°C,Pë CÍ PSPµPrPsCÍC,CÍPİPSPsPjCÍ PrP»Cİ
PrC-C,PµPNë PjC-CÍC†C-.

PjPİP°PePsPIPeP°.

PµPs 14 C,P°P±P»PµC,PsPe CÍ P±P»C-CÍC,PµCŃC-; PİPs 1 P±P»C-CÍC,PµCŃCÍ CÍ
PeP°CŃC,PsPSPSC-PNë PePsCŃPsP±C†C-.

PŃP°C,PµPiPsCŃC-Cİ PIC-PrPİCÍCÍPeCÍ.

P—P° CŃPµC†PµPİC,PsPj.

P’PëCŃPsP±PSPëPe.

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

**PŃC-CÍC†PµP·PSP°C...PsPrP¶PµPSPSCİ PIPëCŃPsP±PSPëPeP° C,P°
P°PrCŃPµCÍP° PjC-CÍC†Cİ PİCŃPsPIP°PrP¶PµPSPSCİ PNëPsPiPs
PrC-CİP»CŃPSPsCÍC,C-.**

PİCÍP». P’P°P»P±P¶PëCÍPeP° 13, 60-198 PµPsP·PSP°PSCŃ, PµPsP»CŃC%oP° / Walbrzyska str. 13,
60-198 Poznan, Poland.