

$$\begin{aligned} & \text{P}\alpha\text{P}^\circ\text{C}\tilde{\text{H}}\text{PjP}^\circ\text{PePsP}\gg\text{PsPiC}-\text{C}\ddagger\text{PSC}-\text{PIP}\gg\text{P}^\circ\text{C}\dot{\text{I}}\text{C},\text{P}\ddot{\text{e}}\text{PIPsC}\dot{\text{I}}\text{C},\text{C}-\text{PsP}\pm\text{CrPjPsPIP}\gg\text{PuPSC}-\text{PrC}-\text{C}''\text{C}\tilde{\text{H}} \\ & \text{PePsPjP}\ddot{\text{I}}\text{P}\gg\text{PuPeC}\dot{\text{I}}\text{C}\dot{\text{r}}\text{P}\pm\text{C}-\text{PsP}\gg\text{PsPiC}-\text{C}\ddagger\text{PSPs}\text{P}^\circ\text{PeC},\text{P}\ddot{\text{e}}\text{PIPSP}\ddot{\text{e}}\text{C}\dots\text{C}\tilde{\text{H}}\text{PuC}\ddagger\text{PsPIP}\ddot{\text{e}}\text{PS},\text{C}\%_{\text{Ps}} \end{aligned}$$

PIC...PsPrCЦC,CH PrPs CГPeP»P°PrCр P»PёCГC,CЦ P°CГC,PёCёPsPeCр PйPsP»CHPsPIPsPiPs, P° CГP°PjPµ: PePsC,,PµC—P»C...C-PSPSPёC... PePёCГP»PsC, (CQA), C,,P»P°PIPsPSPsC—PrC-PI (PSP°PiCГPёPeP»P°Pr, P»CГC,PµPsP»C-PS) C- CГPµCГPePIC-C,PµCГPiPµPSPsPIPёC... P»P°PeC,PSPSC-PI. CQA PiC-PrPIPёC%oCрCГC,CH P¶PsPIC±PsPIPёPrC-P»PµPSPSCЦ. P“C-PйPsP»C-PiC-PrPµPjC-C±PSPёP№ PµC,,PµPeC, C” PIP»P°CГC,PёPIPёPj P»CГC,PµPsP»C-PSCр, CЦPePёP№ C-PSPiC-P±CрC” P±C-PsCГPёPSC,PµP· C...PsP»PµCГC,PµCГPёPSCр. P“C-CГPeC- CГPµCГPePIC-C,PµCГPiPµPSPsPIC- P»P°PeC,PSPSPё (PSP°PiCГPёPeP»P°Pr, C±PёPSP°CГPsPiC-PeCГPёPS) CГC,PёPjCрP»CГCГC,CH PIPёPrC-P»PµPSPSCЦ CёP»CрPSPePsPIPsC— PePёCГP»PsC,Pё. *In vitro* CQA PiCГPsPrPµPjPsPSCГC,CГCрPIP°P»Pё P·P°C...PёCГPSC- PIP»P°CГC,PёPIPsCГC,C- C%oPsPrPs PiPµPiP°C,PSc±PёC,C-PI.

PљP»C-PSC-C±PSC- C...P°CГP°PeC,PµCГPёCГC,PёPePё.

PµPsPeP°P·P°PSPSCЦ.

PГCГPsPSC-C±PSPёP№ PiPµPiP°C,PёC,, C±PёCГPsP· PiPµC±C-PSPePё, C...CГPsPSC-C±PSPёP№ PSPµPeP°P»CHPeCрP»CHPsP·PSPёP№ C...PsP»PµC±PёCГC,PёC,, PrPёCГPeC-PSPµP·C-CЦ P¶PsPIC±PSPёC... CёP»CЦC...C-PI P·P° PiC-PйPsPeC-PSPµC,PёC±PSPёPj C,PёPiPsPj, C...CГPsPSC-C±PSPёP№ PSPµC,,CГPёC,, C...CГPsPSC-C±PSP° PSPёCГPePsPIP° PSPµPrPsCГC,P°C,PSC-CГC,CH.

PµCГPsC,PёPiPsPeP°P·P°PSPSCЦ.

PµC-PrPIPёC%oPµPSP° C±CрC,P»PёPIC-CГC,CH PrPs PePsPjPiPsPSPµPSC,C-PI P»C-PeP°CГCГCHPePsPiPs P·P°CГPsP±Cр C,P° PrPs CГPsCГP»PёPS CГPsPrPёPSPё *Asteraceae* (CГPeP»P°PrPSPsC±PIC-C,PёC...); PSPµPiCГPsC...C-PrPSC-CГC,CH P¶PsPIC±PSPёC... CёP»CЦC...C-PI, C...PsP»P°PSPiC-C,, PSP°PiPSPsC”PSPSCЦ (PµPjPiC-C”PjP°) P¶PsPIC±PSPsPiPs PjC-C...CрCГP°, P¶PsPIC±PSPsPeP°PjбГ™ CЦPSP° C...PIPsCГPsP±P° C±Pё C-PSCёC- P·P°C...PIPsCГCГHIP°PSPSCЦ P¶PsPIC±PSPёC... CёP»CЦC...C-PI, PiPsCГC,CГC- P·P°C...PIPsCГCГHIP°PSPSCЦ PiPµC±C-PSPePё, C,CЦP¶PeP° PiPµC±C-PSPePsPIP° PSPµPrPsCГC,P°C,PSC-CГC,CH; PSPµPiCГPsC...C-PrPSC-CГC,CH CГPµC±PsPIPёPIC-PrPSPёC... CёP»CЦC...C-PI, PiPsCГC,CГC- P·P°C...PIPsCГCГHIP°PSPSCЦ PSPёCГPsPe.

PћCГPsP±P»PёPIC- P·P°C...PsPrPё P±PµP·PiPµPePё.

P—P°CГC,PsCГPsPICрPIP°C,Pё P· PsP±PµCГPµP¶PSC-CГC,CH PiCГPё P·P°C...PIPsCГCГHIP°PSPSCЦC..., C%oPs PjPsP¶CрC,CH PiCГPёP·PIPµCГC,Pё PrPs PSPµPiCГPsC...C-PrPSPsCГC,C- P¶PsPIC±PSPёC... CёP»CЦC...C-PI, C,P° PiCГPё C,CЦP¶PePёC... P·P°C...PIPsCГCГHIP°PSPSCЦC... PiPµC±C-PSPePё. Pj CГP°P·C- PIPёPSPёPePSPµPSPSCЦ PrC-P°CГPµC— P°P±Ps P±PsP»CГ PI P¶PёPIPsC,C- P»C-PeCрPIP°PSPSCЦ CГP»C-Pr PiCГPёPiPёPSPёC,Pё C,P° PiCГPsPePsPSCГCрP»CHC,CрPIP°C,PёCГCЦ P· P»C-PeP°CГPµPj.

P»C-PeP°CГCГCHPePёP№ P·P°CГC-P± PjC-CГC,PёC,CH CГP°C...P°CГPsP·Cр. PйPsPjCр PiP°C±C-C”PSC,Pё P· PSPµPiPµCГPµPSPsCГPёPjC-CГC,CH C,,CГCрPeC,PSP·Pё, PiPsCГCрCёPµPSPSCЦPj PICГPjPsPeC,CрPIP°PSPSCЦ PiP»CГPePsP·Pё-PiP°P»P°PeC,PSP·Pё P°P±Ps PSPµPrPsCГC,P°C,PSC-CГC,CH C±CрPeCГP°P·Pё-C-P·PsPjP°P»CHC,P°P·Pё PSPµ PiPsPIPёPSPSC- P·P°CГC,PsCГPsPICрPIP°C,Pё PiCГPµPiP°CГP°C,,.

P'P·P°C''PjPsPrC-CИ P·C-PSC€PëPjPë P»C-PeP°CḡCíCHPePëPjPë P·P°CíPsP±P°PjPë C,P°C-PSC€C- PIPëPrPë PIP·P°C''PjPsPrC-PN₂.

P-PsPrPSPëC... PìPsPIC-PrPsPjP»PμPSCḡ PìCḡPs PIP·P°C''PjPsPrC-Cḡ PìCḡPμPìP°CḡP°C,Cí B«PìPëPSP°CḡC-PeCí C,,PsCḡC,PμB» P·C-PSC€PëPjPë P»C-PeP°CḡCíCHPePëPjPë P·P°CíPsP±P°PjPë PSPμ PSP°PrC...PsPrPëP»Ps.

PḡCíPsP±P»PëPIPsCíC,C- P·P°CíC,PsCíC¿PIP°PSPSCИ.

P—P°CíC,PsCíC¿PIP°PSPSCИ C¿ PìPμCḡC-PsPr PIP°PìC-C,PSPsCíC,C- P°P±Ps PìPsPrC¿PIP°PSPSCИ PìCḡC¿PrPrCḡ.

P§PμCḡPμP· PIC-PrCíCíC,PSC-CíC,CH PrPsCíC,P°C,PSC-C... PrP°PSPëC... PìCḡPëPN₂PsPj PìPμCḡC-PsPr PIP°PìC-C,PSPsCíC,C- C- PìPsPrCíPIP°PSPSCИ PìCḡCíPrPrCḡ PSPμ CḡPμPePsPjPμPSPPrCíC''C,CHCíCИ.

P—PrP°C,PSC-CíC,CH PIPìP»PëPIP°C,Pë PSP° C€PIPëPrPeC-CíC,CH CḡPμP°PeC†C-C— PìCḡPë PePμCḡC¿PIP°PSPSC- P°PIC,PsC,CḡP°PSCíPìPsCḡC,PSPj P°P±Ps C-PSC€PëPjPë PjPμC...P°PSC-P·PjP°PjPë.

B«PìPëPSP°CḡC-PeCí C,,PsCḡC,PμB» PSPμ PIPìP»PëPIP°C'' PSP° P·PrP°C,PSC-CíC,CH PePμCḡCíPIP°C,Pë C,CḡP°PSCíPìPsCḡC,PSPëPjPë P·P°CíPsP±P°PjPë C-PjPμC...P°PSC-P·PjP°PjPë.

PŸPìPsCíC-P± P·P°CíC,PsCíC¿PIP°PSPSCИ C,P° PrPsP·Pë.

P''PsP·Pë

P''PsCḡPsCíP»C- C,P° PrC-C,Pë PIC-Pr 12 CḡPsPeC-PI:

PìPs 1 C,P°P±P»PμC,C†C-, PìPeCḡPëC,C-PN₂ PsP±PsP»PsSPePsCḡ, PrPIC-C†C- PSP° PrPμPSCḡ.

PŸPìPsCíC-P± P·P°CíC,PsCíCíPIP°PSPSCИ

PμCḡPμPìP°CḡP°C, PSPμPsP±C...C-PrPSPs PìCḡPëPN₂PjP°C,Pë PìC-Pr C†P°Cí C—PrPë, P·P°PìPëPIP°CḡC†Pë PrPsCíC,P°C,PSCHPsCḡ PeC-P»CHPeC-CíC,Cḡ PìPsPrPë (PSP°PìCḡPëPeP»P°Pr, 1 CíPeP»CИPSPePsCḡ).

PḡCíCḡCí P»C-PeCíPIP°PSPSCИ PIPëP·PSP°C†P°C'' P»C-PeP°Cḡ C-PSPrPëPIC-PrCíP°P»CHPSPs, P·P°P»PμP¶PSPs PIC-Pr C...P°CḡP°PeC,PμCḡCí C,P° PìPμCḡPμP±C-PìCí P·P°C...PIP°CḡCḡPIP°PSPSCИ. P—P°P·PIPëC†P°PN₂ PeCíCḡCí P»C-PeCíPIP°PSPSCИ CíC,P°PSPsPIPëC,CH 2ḡḡ"3 C,PëP¶PSC-. PμCḡPsPIPμPrPμPSPSCИ PìPsPIC,PSCḡPSPëC... PeCíCḡCíC-PI P»C-PeCíPIP°PSPSCИ PjPsP¶P»PëPIPμ PìC-CíP»CИ PìPsPìPsPrP¶PμPSPSCИ P· P»C-PeP°CḡPμPj.

PkPμ CḤPμPePsPjPμPSPrCr'C,C,HĆĠCĬ PİCḤPëPNöPjP°C,Pë PrC-C,CĬPj PrPs 12 CḤPsPeC-PI
C‡PμCḤPμP· PIC-PrĆĠCr'C,PSC-ĆĠC,CḤ PrPsĆĠC,P°C,PSC-C... PrP°PSPëC... C%oPsPrPs
PİCḤPëPNöPsPjCr'.

$$\text{P}_{\text{H}}\text{PsP}\|\text{P}\gg\text{P}\ddot{\text{e}}\text{PI}\text{P}_{\mu} \quad \text{P}\ddot{\text{i}}\text{PsC}\Gamma\text{P}\ddot{\text{e}}\text{P}\gg\text{P}_{\mu}\text{PSPSC}\sqcup \quad \text{P}\ddot{\text{i}}\text{PsP}\pm\text{C}-\text{C}\ddagger\text{PSP}\ddot{\text{e}}\text{C}\dots \quad \text{P}_{\mu}\text{C}_{,,}\text{P}_{\mu}\text{PeC}_{,}\text{C-PI}.$$

РнРсР¶Р»РөРІР° РїРсРјС-СђРSP° РrС-Р°СђРµСђ Р· РєРсР»С-РєР°РјРө РІ Р¶РөРІРсС-, Р° С,Р°РєРсР¶ РµРїС-РїР°СђС,СђР°»СђРSC- СђРсР·Р»Р°Ррө, РSP°РїСђРөРєР»Р°Р РSCђРРсС,Р° Р°Р±Рс РїРµСђС-Сђ, Р°Р»РµР»СђРїС-СђРSC- СђРµР°РєСђС-, РІРєР»»СђСђР°СђРө РєСђРсРїРөРІбђ™ СђРSPєСђ, СєРєС-СђРSC- РІРөСђРөРїРө, РїС-РїРµСђРјСјС-Сђ С,Р° СђРІРІµСђР±С-Р¶. Рј СђР°Р·- РїРсСђРІРө РSPµР±Р°Р¶Р°РSPө... СђРµР°РєСђС-Р№ СђР»С-РєР°РµР°СђРµРј.

3 C₇H₉PsPεPë.

$P-P \pm P_{\mu} C_7 C - P i P^{\circ} C, P \ddot{e} P i C_7 P \ddot{e} C, P_{\mu} P j P i P_{\mu} C_7 P^{\circ} C, C r C_7 C - P S P_{\mu} P i P \ddot{e} C \% P_{\mu} 30 B^{\circ} P \ddot{Y}.$
 $P-P \pm P_{\mu} C_7 C - P i P^{\circ} C, P \ddot{e} P i P s C_7 P \ddot{e} P i C - P S P^{\circ} P \gg C H P S C - P N_2 C r P i P^{\circ} P e P s P i C \dagger C - P r P \gg C \ddot{U}$
 $P \cdot P^{\circ} C \dots P \ddot{e} C r C, C r P i C - P r C r P i C - C, P \gg P^{\circ}.$

P₄Ps 15 C,P°P±P»P₄C,P₅Pe PI P±P»C-ClC,P₄CHC-, P₄Ps 30 C,P°P±P»P₄C,P₅Pe (15×2) P°P±Ps 90 C,P°P±P»P₄C,P₅Pe (15×6) PI PeP°CHC,P₅PSPSC-PN₂ ClP₄P°P₅PePsPIClC-.

$$P'P_{\mu}P \cdot C\bar{H}P_{\mu}C^{\dagger}P_{\mu}P\ddot{C}, P^{\circ}.$$

P'PëCḥPsP±PSPëPε.

$P_{\alpha}P^{\circ}C_{\mathfrak{H}}P_jP^{\circ}C^{\dagger}P_{\mu}C^{\acute{r}}C,C-C\epsilon P_{\mu}C,,P^{\circ}P\pm C_{\mathfrak{H}}C-P_{\epsilon}P_{\mathfrak{H}}P_sP_{SC},P^{\circ}P_{IC}-C,P^{\prime\prime}P_jP\pm P_{\Gamma}^{\prime}$

$P_{\mathfrak{H}}C-C^{\acute{r}}C^{\dagger}P_{\mu}P\cdot P_{SP^{\circ}}C...P_sP_{\Gamma}P_{\mathfrak{I}}P_{\mu}P_{SP_{SC}}P_{IC}P_{\ddot{e}}C_{\mathfrak{H}}P_sP\pm P_{SP\ddot{e}}P_{\epsilon}P^{\circ}C,P^{\circ}P^{\circ}P_{\Gamma}C_{\mathfrak{H}}P_{\mu}C^{\acute{r}}P^{\circ}P_jC-C^{\acute{r}}C^{\dagger}C_{\mathfrak{I}}P_{\ddot{i}}C_{\mathfrak{H}}P_sP_{IP^{\circ}}P_{\Gamma}P_{\mathfrak{I}}P_{\mu}P_{SP_{SC}}P_{N\circ}P_sP_{i}P_sP_{\Gamma}C-C_{\mathfrak{I}}P\rangle C_{\mathfrak{H}}P_{SP_s}C^{\acute{r}}C,C-$

$P-P^{\circ}P\rangle C_{\mathfrak{H}}P\pm P_{\mu}C_{\mathfrak{H}}P_{iC\epsilon}C,C_{\mathfrak{H}}P^{\circ}C^{\acute{r}}C^{\acute{r}}P_{\mu}96,6067P_{\mathfrak{h}}P\pm P\cdot P^{\circ}P_j,P_{\mathfrak{h}}P_{IC}^{\acute{r}}C,C_{\mathfrak{H}}C-C_{\mathfrak{I}}$