

!" #&/
4;O <548G=>3> 70AB>AC20=O ;V:0@AL:>3> 70A>1C

#@
(EUCARBON@)

!;:04:

4!NGV @5G>28=8: 1 B01;5B:0FoliumSennae) 105 <3, 5:AB@0:B :>@5=O @525=N ACE89 (Rhei radix) (5:AB@035=8 5B0=>; 70 %) 25 <3, 2C3V;;O 45@52=5 180 <3, AV@:0 50<3;
4?>28=8: >;VO <OB8 ?5@F52>W, >;VO D5=E5;N, A0E0@>70, :@>E<0;L :C:C@C470=89, B0;L; :0;;V=, 0:0FVO (3C

V:0@AL:0 D>@<0. "01;5B:8.

A=>2=V D178:>-EVABV: B01;5B:8 F8;V=4@8G=>W D>@<8, 42>>?C;;V, AV@C20B>-G>@=>3> :>;L>@C.

S0@<0>B5@0?52B8G=0 3@C?0.

V:0@AL:V 70A>18, O:V 70AB>A>2CNBLAO 4;O ;V:C20=O 70?>@V2. >=B0:B=V ?@=>A=V 70A>18. ;V:>7848 A5=8, >1V=0FVW.

>4 "% 06B56.

S0@<0>;>3VG=V 2;0AB82>ABV.

S0@<0>:>48=0

@5?0@0BA:8=V V ;V9 <OB8 ?5@F52>W B0 D5=E5;N ?V4A8;NT 2VB@>3V=C B0 ?@>B870?0;L=C 4VW 4VNG8E @5G>28=. 002=VABL 45@52=>3> 2C3V;;O 70157?5GCT 740B=VABL 7207C20B8 B>;A8=8 @V7=>3>
>E>465=O. @5?0@0B G8=8BL 457V=DV:CNCG B0 ?@>B870?0;L=C 4VW 2 H;C=>2>-.8H:>2>

@>=>A=89 5D5:B ?>G8=0TBLAO G5@57 8-10 3>48= ?VA;O ?@89?>78B82=89 ;;V=VG=89 4A2V4 70AB>AC20=O @5?0@0BC ?0FVT=B0<V 7 A8=4@<<< ?>4@07=5=>3> :8H5G=8.C.

S0@<0>:V=5B8:0.

5 282G0;0AL.

;V=VG=V E0@0:B5@8AB8:8.

>:070=O. V:C20=O 70?>@V2 @V7=>3> ?>E>465=O.

@>B8?>:070=O. V42815=0 GCB;82VABL 4> 1C4L-O:>3> :>=5=BC ?@5?0@0BC. >AB@0 :8H:>20 =5?@>EV4=VABL V AB5=>7, 0B=>VO, 3>AB@V V=D5:FV9=V 70E2>@N20=O :8H5G=8.C, 3>AB@V 70?0;L=V
70E2>@N20=O :8H5G=8.C (<0?@8:;04, E2>@>10 @>=0, =5A?5F8DVG=89 28@07>289 :>;VB, 0?5=48F8B), 1V:L 2 4V;O=FV 682>B0 =57OA>20=>3> ?>E>465=O, <5B@>@03VW, ?5@8B=>VB, B@V18=8 ?@O<W
>:8H:8, 7015<5=0 3@860, ?0=:@50B8B, 35?0B8B, 4825@B8:C;VB, F8AB8B, 35>@>9, =5D@8B, =54V03=>AB>20=V 014>

70T<>4VO 7 V=H8<8 ;V:0@AL:8<8 70A>10<8 B0 V=HV 2848 270T<>4V9.

V7>;0;VT23>AB@>>2>3> ?@89>A;01;NNG8E 70A>1V2) ?>B5=VFN 4VN A5@F528E 3;V>784V2 (=0?5@ABO=8, AB@>D0=BC), <65 B0>6 71V2, ?@5?0@0BV2, O:V 28;;8:0NBL @525@AVN 4> A8=CA>2>3> @8B
1V2, 1> 71V;LHCNBL V=B5@20; QT.

OAB>AC20=O 7 V=H8<8 ;V:0@AL:8<8 70A>10<8, 1> 28;;8:0NBL 3V?>:0;VT

A>1;82>ABV 70AB>AC20=O.

/I> ?>A;01;NNGV 70A>18 =5>1EV4=V I>4=O, ?>B@V1=> 2AB0=>28B8 ?@8G=C 70?>@V2.

C:0@1>=& A;V4 70AB>A>2C20B8 BV;L:8 O:I> B5@0?52B8G=>3> 5D5:BC =5<<6=0 4>AO3=CB8 H;OE<< 7 70AB>AC20=O ?>A;01;NNG8E 70A>1V2, 1> 71V;LHCNBL >1T< :8H:>2>3> 2

;O 4>AO3=5=O =5>1EV4=>3> B5@0?52B8G=>3> 5D5:BC 4>7C ?@5?0@0BC ?V418@0NBL V=482V4C0;L=>.

OAB>AC20=O ?@5?0@0BC @5;><5=4CTBLAO ?@>BO3<<4=>3> B86=O, 0:5 =5 1V;LH5 2 B86=V2. @>2>B5GV 7 ?@O<W :8H:8 01>=54>AB0B=VABL @>1>B8 :8H5G=8.C, 1><>65 28=8=CB8 ?VA;O

70AB>AC20=O ?@>=>A=8E ?@5?0@0BV2, <65 2.07C20B8 =0 A5@9>7=V 70E2>@N20=O.

@8 70AB>AC20=V ?@>BO3<< ?5@V>4C, O:89 ?5@5281CT 2 B86=V, 5D5:B ?5@5?0@0BC>=65 7<5=HC20B8A0.

5 @5;><5=4CTBLAO 70AB>A>2C20B8 O: 70AV1 4;O AEC4=5=O.

>6=0 B01;5B:0 C:0@1>=&

5 @5;><5=4CTBLAO 70AB>A>2C20B8 ?@5?0@0B ?0FVT=B0< 7 =5?5@=>A878 V 30;0:B>78, V7 A8=4@<<< 3;N>7>30;0:B>7=>W <0;L01A>@1FVW B0 =54>AB0B=VABN A0E0@078-V7<0;LB078.

0FVT=B0<, O:V ?@89<0NBL A5@F52V 3;V>7848, 0=B80@8B18, ?@5?0@0B8, O:V 71V;LHCNBL V=B5@20;QT, 4VC@5B8:8, :>@B8>AB5@>W48 01> ?@5?0@0B8 =0 A>=>2V :>@5=O A>;>4:8, A;V4 4> ?>G0B:C

70AB>AC20=O ?@5?0@0BC ?@>=>AC;LBC20B8A0 7 ;V:0@5

>@>A;8<, O:V AB@0640NBL 2V4 =5B@<8=0=O :0;C (V=>=>B8=5=FFVW), ?@8 ?@89>3> :>=B0:BC H.V@8 7 :0;<< H;OE<< 7;:04>: (A5@25B>).

/I> ?@8G8=0 70?>@C =52V4<0 01> T A:0@38 7 1>:C B@02=>3> B@0:BC (1V;L C 682>BV, =C4>B0, 1;N20=O), B> ?>5@54 ?>G0B:< ?@89>>A=8E 70A>1V2 =5>1EV4=>, 1>1 ;V:0@ 2AB0=>282 ?@8G8=C 70?>@C,
>A;V;L:8 FV A8=8 <6CBL 1CB8>7=0:0<8=5?@>EV4=>ABV :8H5G=8.C, 1> ?>G8=0TBLAO 01> O:0 265 T.

OAB>AC20=O O C ?5@V>4 203VB=>ABV 01> 3>4C20=O O 3@C44N

03VB=VABL

5 ?>2V4<<O>AO ?@>=51060=89 01> H;V4;8289 2?;82 =0 203VB=C B0 =0 ?V4 ?@8 70AB>AC20=V 2 @5;><5=4>20=>7C20=V.

4=0; 7>3;O4C=0 5.A?5@>8<5=B0;L=V 40=V I>4> 35=>B>:A8G=>3> @878:C 450:8E 0=B@0=>W4V2, =0?@8;:04, 5>4<8=C V 0;>5<5=0<48=C, 28;>@8AB0=O ?V4 G0A 203VB=>ABV =5 @5;><5=4CTBLAO.

>4C20=O 3@C44N.

OAB>AC20=O ?V4 G0A 3>4C20=O 3@C44N=5 @5;><5=4CTBLAO, >A;V;L:8 =5<0T 4>AB0B=L=V W=D>@0FVW ?@> 284V;5=O <5B01>;VBV2 C 3@C4=5 <>:>.

525;8:0 ;V;L:VABL 0:B82=8E<5B01>;VBV2 (rhein) 284V;OTBLAO 2 3@C4=5 <>:>. 5 ?>2V4<<O>;AL ?@> ?>A;01;NNG89 5D5:B C =5<<2;OB, O:V ?5@51C20NBL =0 3@C4=>4>2C20=V.

40B=VABL 2?;820B8 =0 H284:VABL @50:FVW ?@8 :5@C20=V 02B>B@0=A?>@B* 01> V=H8<8 <5E0=V7<0<8. @5?0@0B =5 2?;820T =0 740B=VABL :5@C20B8 02B>>1V;5< 01> ?@0FN20B8 7 V=H8<8 <5E0=VG=8
<8 70A>10<8.

!/?>AV1 70AB>AC20=O B0 4>78. "01;5B:8 ?@89>0B8 ?V4 G0A 01> ?VA;O W48, 4>@>A;8< V 4VBO< 2V;< 2V4 12 @>:V2 ?> 1-2 B01;5B:8 1-3 @078 =0 4>1C 4> 4>AO3=5=O <O>3> ?@>=>A=>3> 5D5:BC. /I>

?>B@V1=0 1V;LH A8;L=0 ?@>=>A=0 4VO, B> 25GV@=N 4>7C<<6=0 71V;LH8B8 4> 3-4 B01;5B: :C:0@1>=&

"@820;VABL :C@AC 70;568BL 2V4 ?5@51V3C B0 BO6>ABV 70E2>@N20=O V 287=0G0TBLAO ;V:0@5 V=482V4C0;L=>. 0728G09 B@820;VABL ;V:C20=O - 1-2 B86=V. 5 A;V4 ?@890B8 157 2V4?>2V4=>W @5;>

<5=40FVW ;V:0@O 4>2H5 2 B86=V2.

/B8. □VBO< 2V;< 4> 12 @>:V2 C:0@1>=& =5 70AB>A>2CNBL.

5@54>7C20=O. A=>2=8<8 A8<0<8 ?5@54>7C20=O T 1V;L C 682>BV V 4V0@50 7 ?>40;LH>N 2B@0B>N @V48=8 V 5;5:B@>;VBV2, O:V ?>28=V 1CB8 70

>@5<0, 4V0@50 <<65 AB0B8 ?@8G8=>N 3V?>:0;VTAC20=V 7 A5@F528<8 3;V>7840<8, 4VC@5B8:0<8, :>@B8>AB5@>W40<8 01> ?@5?0@0B0<8 :>@5=O A>;>4:8. V:C20=O =0?@02;5=5 =0 ?V4B@8W ;V;L:>ABV

@V48=8 2 >@30=V76 A;V4 ?@8?8=8B8 70AB>AC20=O ?@5?0@0BC 01> 7=878B8 9>3> 4>7C. ;VBV2, 7>:@5<0:0;VN, A;V4 ?>ABV9=> ?5@52V@0B8, >A>1;82< C ?0FVT=BV2 ;VB=L>3> 2V:C. %@>=VG=5 =04

AC20=O ;V:0@AL:8E 70A>1V2, 1>=8, <65 ?@8725AB8 4> B>:A8G=8E 35?0B8BV2.

>1VG=V @50:FVW.

@8 @5;><5=4>20=>7C20=V ?>1VG=V 5D5:B8 4C65 @V4:VA=V (1>;V 2 682>BV, 4V0@50). @8 70AB>AC20=V 0=B@0EV=>=>28E ?@>=>A=8E 70A>1V2 >8A0=> 28?04:8 28=8=5=O =C4>B8 V 1;N20=O

F5=B@0;L=>3> 35=57C; B0:C 4VN <<6CBL A?@8G8=OB8 A5=0 V @52V=L. @8 ?@89>8E 4>7 ?@>BO3<< B@820>3> ?5@V>4C G0AC <<6;825 7<5=H5=O 2;VBV2, 2 >A=>2>=> <65 7C<>28B8 C?>2V;L=5=O

:8H:>2>3> ?0A06C (0B=>VO :8H5G=8.C V 70?>@8) B0 ?>@CH5=O B@02;5=O. >65 28=8=CB8 2B>@8=89 0;L4>AB5@>V7< G5@57 CH>465=O =8@>:28E :0:0;LFV2 ?@8 7;>26820=V.

'5@57 ;C6=C @50:FVN <<6;825 A:>@>=>8=CI5 A;01:5 7010@2;5=O A5GV 2 G5@2=>89 ;;V@; O:5 =5<0T ;;V=VG=>3> 7=0G5=O.

>6CBL A?>AB5@V30B8A0 @50:FVW ?V42815=>W GCB;82>ABV, 2;:NG0NG8 A25@1V6. ;@>?82'O=C, 7030;L=C 5:70=B5

8ABO A5=8 V :>@V=L @525=O <<6CBL A?@8G8=8B8 1V;L 2 682>BV, A?0?> V @V4:5 28?>@>6=5=O, 7>:@5<0 C ?0FVT=BV2 7 ?>4@07=5=O <8 B>2AB>W :8H:8. 4=0; FV A8=8 <<6CBL B0>6 28=8:0B8 O: =0A;V4>

V=482V4C0;L=>3> ?5@54>7C20=O. # B0:8E 28?04:0E =5>1EV4=> 7=878B8 4>7C.

%@>=VG=5 26820=O <<65 ?@8725AB8 4> ?>@CH5=L 2>4>3> B0 5;5:B@>;VB=>3> 10;0=AC (3V?>0;VT:0;LFVT@CH5=O A5@F52>V 4V0;L=>ABV, <O7>2>W A;01:>ABV, AC4<*, 2B@0B8 <0A8 BV;0 B0 4> 0;L1C

?>A8;N20B8AL C ?0FVT=BV2 ;VB=L>3> 2V:C ?@8 1030B>@07>2>AC20=V.

@V< B>3>, E@>=VG=5 70AB>AC20=O <<65 A?@8G8=8B8 ?V3<5=B0FVN A;8?>2>W >1>;=:8 :8H5G=8.C (?A524<5;0=>7), O:0, O: ?@028;>, 7=8:0T, :>;8 ?0FVT=B ?@8?8=OT ?@89>0B8 ?@5?0@0B.

'5@ABV. 5 @>:V2.

#<>28 715@V30=O. 15@V30B8 C =54>ABC?=>

#?0:>2.0. >10 B01;5B: C 1;VAB5@V; ?> 1 01> ?> 3 1;VAB5@8 C :0@B>=>V9 :>@>1FV.

0B53>@VO 2V4?CA:C. 57 @5F5?B0.

8@>1=8.

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S. " @5=0 E5

VAF57=0E>465=O 28@>1=8:0 B0 9>3> 04@5A0 20465=O 4VO;L=>ABV. Goldegasse 5, 1040 Vienna, Austria/

>;L45330AA5 5, 1040 V45=L, □2AB@VO.