

SEQUENCE LISTING

<110> PureCircle USA Inc.

<120> HIGH-PURITY STEVIOL GLYCOSIDES

<130> 39227-77WO

<160> 3

<170> PatentIn version 3.5

<210> 1

<211> 808

<212> PRT

<213> Arabidopsis thaliana

<400> 1

Met Ala Asn Ala Glu Arg Met Ile Thr Arg Val His Ser Gln Arg Glu

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35 40 45

Ile Ile Ala Glu Phe Glu Ala Leu Pro Glu Gln Thr Arg Lys Lys Leu

50 55 60

Glu Gly Gly Pro Phe Phe Asp Leu Leu Lys Ser Thr Gln Glu Ala Ile

65 70 75 80

Val Leu Pro Pro Trp Val Ala Leu Ala Val Arg Pro Arg Pro Gly Val

85 90 95

Trp Glu Tyr Leu Arg Val Asn Leu His Ala Leu Val Val Glu Glu Leu

100 105 110

Gln Pro Ala Glu Phe Leu His Phe Lys Glu Glu Leu Val Asp Gly Val

115 120 125

Lys Asn Gly Asn Phe Thr Leu Glu Leu Asp Phe Glu Pro Phe Asn Ala

130 135 140

Ser Ile Pro Arg Pro Thr Leu His Lys Tyr Ile Gly Asn Gly Val Asp

145 150 155 160

Phe Leu Asn Arg His Leu Ser Ala Lys Leu Phe His Asp Lys Glu Ser

165 170 175

Leu Leu Pro Leu Leu Asp Phe Leu Arg Leu His Ser His Gln Gly Lys

180 185 190

Asn Leu Met Leu Ser Glu Lys Ile Gln Asn Leu Asn Thr Leu Gln His

195 200 205

Thr Leu Arg Lys Ala Glu Glu Tyr Leu Ala Glu Leu Lys Ser Glu Thr

210 215 220

Leu Tyr Glu Glu Phe Glu Ala Lys Phe Glu Glu Ile Gly Leu Glu Arg

225 230 235 240

Gly Trp Gly Asp Asn Ala Glu Arg Val Leu Asp Met Ile Arg Leu Leu

245 250 255

Leu Asp Leu Leu Glu Ala Pro Asp Pro Ser Thr Leu Glu Thr Phe Leu

260 265 270

Gly Arg Val Pro Met Val Phe Asn Val Val Ile Leu Ser Pro His Gly

275 280 285

Tyr Phe Ala Gln Asp Asn Val Leu Gly Tyr Pro Asp Thr Gly Gly Gln

290 295 300

Val Val Tyr Ile Leu Asp Gln Val Arg Ala Leu Glu Ile Glu Met Leu

305 310 315 320

Gln Arg Ile Lys Gln Gln Gly Leu Asn Ile Lys Pro Arg Ile Leu Ile

325 330 335

Leu Thr Arg Leu Leu Pro Asp Ala Val Gly Thr Thr Cys Gly Glu Arg

340 345 350

Leu Glu Arg Val Tyr Asp Ser Glu Tyr Cys Asp Ile Leu Arg Val Pro

355 360 365

Phe Arg Thr Glu Lys Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu

370 375 380

Val Trp Pro Tyr Leu Glu Thr Tyr Thr Glu Asp Ala Ala Val Glu Leu

385 390 395 400

Ser Lys Glu Leu Asn Gly Lys Pro Asp Leu Ile Ile Gly Asn Tyr Ser

405 410 415

Asp Gly Asn Leu Val Ala Ser Leu Leu Ala His Lys Leu Gly Val Thr

420 425 430

Gln Cys Thr Ile Ala His Ala Leu Glu Lys Thr Lys Tyr Pro Asp Ser

435 440 445

Asp Ile Tyr Trp Lys Lys Leu Asp Asp Lys Tyr His Phe Ser Cys Gln

450

455

460

Phe Thr Ala Asp Ile Phe Ala Met Asn His Thr Asp Phe Ile Ile Thr

465

470

475

480

Ser Thr Phe Gln Glu Ile Ala Gly Ser Lys Glu Thr Val Gly Gln Tyr

485

490

495

Glu Ser His Thr Ala Phe Thr Leu Pro Gly Leu Tyr Arg Val Val His

500

505

510

Gly Ile Asp Val Phe Asp Pro Lys Phe Asn Ile Val Ser Pro Gly Ala

515

520

525

Asp Met Ser Ile Tyr Phe Pro Tyr Thr Glu Glu Lys Arg Arg Leu Thr

530

535

540

Lys Phe His Ser Glu Ile Glu Glu Leu Leu Tyr Ser Asp Val Glu Asn

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Asp Glu His Leu Cys Val Leu Lys Asp Lys Lys Lys Pro Ile Leu Phe

565 570 575

Thr Met Ala Arg Leu Asp Arg Val Lys Asn Leu Ser Gly Leu Val Glu

580 585 590

Trp Tyr Gly Lys Asn Thr Arg Leu Arg Glu Leu Val Asn Leu Val Val

595 600 605

Val Gly Gly Asp Arg Arg Lys Glu Ser Lys Asp Asn Glu Glu Lys Ala

610 615 620

Glu Met Lys Lys Met Tyr Asp Leu Ile Glu Glu Tyr Lys Leu Asn Gly

625 630 635 640

Gln Phe Arg Trp Ile Ser Ser Gln Met Asp Arg Val Arg Asn Gly Glu

645 650 655

Leu Tyr Arg Tyr Ile Cys Asp Thr Lys Gly Ala Phe Val Gln Pro Ala

660 665 670

Leu Tyr Glu Ala Phe Gly Leu Thr Val Val Glu Ala Met Thr Cys Gly

675 680 685

Leu Pro Thr Phe Ala Thr Cys Lys Gly Gly Pro Ala Glu Ile Ile Val

690 695 700

His Gly Lys Ser Gly Phe His Ile Asp Pro Tyr His Gly Asp Gln Ala

705 710 715 720

Ala Asp Leu Leu Ala Asp Phe Phe Thr Lys Cys Lys Glu Asp Pro Ser

725 730 735

His Trp Asp Glu Ile Ser Lys Gly Gly Leu Gln Arg Ile Glu Glu Lys

740 745 750

Tyr Thr Trp Gln Ile Tyr Ser Gln Arg Leu Leu Thr Leu Thr Gly Val

755 760 765

Tyr Gly Phe Trp Lys His Val Ser Asn Leu Asp Arg Leu Glu His Arg

770 775 780

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Ala Val Pro Leu Ala Gln Asp Asp

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<400> 2

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25

30

Phe Leu Ile Tyr Leu Cys Ser Thr Arg Ile Asn Leu Glu Ser Ile Ile

35

40

45

Lys Lys Ile Pro Glu Lys Tyr Ala Asp Ser Ile His Leu Ile Glu Leu

50

55

60

Gln Leu Pro Glu Leu Pro Glu Leu Pro Pro His Tyr His Thr Thr Asn

65

70

75

80

Gly Leu Pro Pro His Leu Asn Pro Thr Leu His Lys Ala Leu Lys Met

85

90

95

Ser Lys Pro Asn Phe Ser Arg Ile Leu Gln Asn Leu Lys Pro Asp Leu

100

105

110

Leu Ile Tyr Asp Val Leu Gln Pro Trp Ala Glu His Val Ala Asn Glu

115

120

125

Gln Gly Ile Pro Ala Gly Lys Leu Leu Val Ser Cys Ala Ala Val Phe

130

135

140

Ser Tyr Phe Phe Ser Phe Arg Lys Asn Pro Gly Val Glu Phe Pro Phe

145

150

155

160

Pro Ala Ile His Leu Pro Glu Val Glu Lys Val Lys Ile Arg Glu Ile

165

170

175

Leu Ala Lys Glu Pro Glu Glu Gly Gly Arg Leu Asp Glu Gly Asn Lys

180

185

190

Gln Met Met Leu Met Cys Thr Ser Arg Thr Ile Glu Ala Lys Tyr Ile

195

200

205

Asp Tyr Cys Thr Glu Leu Cys Asn Trp Lys Val Val Pro Val Gly Pro

210

215

220

Pro Phe Gln Asp Leu Ile Thr Asn Asp Ala Asp Asn Lys Glu Leu Ile

225 230 235 240

Asp Trp Leu Gly Thr Lys Pro Glu Asn Ser Thr Val Phe Val Ser Phe

245 250 255

Gly Ser Glu Tyr Phe Leu Ser Lys Glu Asp Met Glu Glu Ile Ala Phe

260 265 270

Ala Leu Glu Ala Ser Asn Val Asn Phe Ile Trp Val Val Arg Phe Pro

275 280 285

Lys Gly Glu Glu Arg Asn Leu Glu Asp Ala Leu Pro Glu Gly Phe Leu

290 295 300

Glu Arg Ile Gly Glu Arg Gly Arg Val Leu Asp Lys Phe Ala Pro Gln

305 310 315 320

Pro Arg Ile Leu Asn His Pro Ser Thr Gly Gly Phe Ile Ser His Cys

325 330 335

Gly Trp Asn Ser Val Met Glu Ser Ile Asp Phe Gly Val Pro Ile Ile

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345

350

Ala Met Pro Ile His Asn Asp Gln Pro Ile Asn Ala Lys Leu Met Val

355

360

365

Glu Leu Gly Val Ala Val Glu Ile Val Arg Asp Asp Asp Gly Lys Ile

370

375

380

His Arg Gly Glu Ile Ala Glu Ala Leu Lys Ser Val Val Thr Gly Glu

385

390

395

400

Thr Gly Glu Ile Leu Arg Ala Lys Val Arg Glu Ile Ser Lys Asn Leu

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410

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Lys Ser Ile Arg Asp Glu Glu Met Asp Ala Val Ala Glu Glu Leu Ile

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Gln Leu Cys Arg Asn Ser Asn Lys Ser Lys

435

440

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Met Glu Asn Lys Thr Glu Thr Thr Val Arg Arg Arg Arg Arg Ile Ile

1

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Leu Phe Pro Val Pro Phe Gln Gly His Ile Asn Pro Ile Leu Gln Leu

20

25

30

Ala Asn Val Leu Tyr Ser Lys Gly Phe Ala Ile Thr Ile Leu His Thr

35

40

45

Asn Phe Asn Lys Pro Lys Thr Ser Asn Tyr Pro His Phe Thr Phe Arg

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Phe Ile Leu Asp Asn Asp Pro Gln Asp Glu Arg Ile Ser Asn Leu Pro

65 70 75 80

Thr His Gly Pro Leu Ala Gly Met Arg Ile Pro Ile Ile Asn Glu His

85 90 95

Gly Ala Asp Glu Leu Arg Arg Glu Leu Glu Leu Leu Met Leu Ala Ser

100 105 110

Glu Glu Asp Glu Glu Val Ser Cys Leu Ile Thr Asp Ala Leu Trp Tyr

115 120 125

Phe Ala Gln Asp Val Ala Asp Ser Leu Asn Leu Arg Arg Leu Val Leu

130 135 140

Met Thr Ser Ser Leu Phe Asn Phe His Ala His Val Ser Leu Pro Gln

145 150 155 160

Phe Asp Glu Leu Gly Tyr Leu Asp Pro Asp Asp Lys Thr Arg Leu Glu

165 170 175

Glu Gln Ala Ser Gly Phe Pro Met Leu Lys Val Lys Asp Ile Lys Ser

180 185 190

Ala Tyr Ser Asn Trp Gln Ile Gly Lys Glu Ile Leu Gly Lys Met Ile

195 200 205

Lys Gln Thr Lys Ala Ser Ser Gly Val Ile Trp Asn Ser Phe Lys Glu

210 215 220

Leu Glu Glu Ser Glu Leu Glu Thr Val Ile Arg Glu Ile Pro Ala Pro

225 230 235 240

Ser Phe Leu Ile Pro Leu Pro Lys His Leu Thr Ala Ser Ser Ser Ser

245 250 255

Leu Leu Asp His Asp Arg Thr Val Phe Glu Trp Leu Asp Gln Gln Ala

260 265 270

Pro Ser Ser Val Leu Tyr Val Ser Phe Gly Ser Thr Ser Glu Val Asp

275 280 285

Glu Lys Asp Phe Leu Glu Ile Ala Arg Gly Leu Val Asp Ser Gly Gln

290 295 300

Ser Phe Leu Trp Val Val Arg Pro Gly Phe Val Lys Gly Ser Thr Trp

305 310 315 320

Val Glu Pro Leu Pro Asp Gly Phe Leu Gly Glu Arg Gly Lys Ile Val

325 330 335

Lys Trp Val Pro Gln Gln Glu Val Leu Ala His Pro Ala Ile Gly Ala

340 345 350

Phe Trp Thr His Ser Gly Trp Asn Ser Thr Leu Glu Ser Val Cys Glu

355 360 365

Gly Val Pro Met Ile Phe Ser Ser Phe Gly Gly Asp Gln Pro Leu Asn

370 375 380

Ala Arg Tyr Met Ser Asp Val Leu Arg Val Gly Val Tyr Leu Glu Asn

385 390 395 400

Gly Trp Glu Arg Gly Glu Val Val Asn Ala Ile Arg Arg Val Met Val

405 410 415

Asp Glu Glu Gly Glu Tyr Ile Arg Gln Asn Ala Arg Val Leu Lys Gln

420 425 430

Lys Ala Asp Val Ser Leu Met Lys Gly Gly Ser Ser Tyr Glu Ser Leu

435 440 445

Glu Ser Leu Val Ser Tyr Ile Ser Ser Leu

450 455