

Table S1. Metabolites identified in mycelium of *E. gansuensis* (Eg) and *E. sibirica* (Es) from GC–MS analysis. The quantities are showed with “relative content \pm standard deviation”.

Class	Compound	Relative content	
		Eg	Es
Amino acid	Ser	0.0100 \pm 0.0017	0.0105 \pm 0.0026
Amino acid	Thr	0.0142 \pm 0.0015	0.0143 \pm 0.0018
Amino acid	Gly	0.0058 \pm 0.0012	0.0054 \pm 0.0010
Amino acid	Hse	0.0043 \pm 0.0007	0.0047 \pm 0.0012
Amino acid	Pro	0.0913 \pm 0.0081	0.0540 \pm 0.0085
Amino acid	Asp	0.0314 \pm 0.0047	0.0328 \pm 0.0094
Amino acid	Glu	0.0152 \pm 0.0013	0.0127 \pm 0.0006
Amino acid	Asn	0.0074 \pm 0.0008	0.0075 \pm 0.0015
Amino acid	Lys	0.0136 \pm 0.0011	0.0137 \pm 0.0013
Amino acid	Tyr	0.0050 \pm 0.0010	0.0101 \pm 0.0016
Amino acid	Phe	0.0357 \pm 0.0033	0.0388 \pm 0.0048
Sugar	Fructose	0.0022 \pm 0.0004	0.0024 \pm 0.0005
Sugar	Galactose	0.0098 \pm 0.0016	0.0104 \pm 0.0022
Sugar	Talose	0.0056 \pm 0.0006	0.0055 \pm 0.0008
Sugar	Trehalose	1.0774 \pm 0.0707	1.4133 \pm 0.0531
Sugar	Mannobiose	0.0034 \pm 0.0005	0.0034 \pm 0.0005
Sugar alcohol	Glycerol	0.1139 \pm 0.0138	0.1135 \pm 0.0155
Sugar alcohol	Threitol	0.0066 \pm 0.0009	0.0069 \pm 0.0010
Sugar alcohol	Erythritol	0.0062 \pm 0.0008	0.0065 \pm 0.0009
Sugar alcohol	Arabitol	0.0277 \pm 0.0024	0.0283 \pm 0.0027
Sugar alcohol	Mannitol	1.5818 \pm 0.0990	1.6271 \pm 0.0920
Sugar alcohol	Inositol	0.0274 \pm 0.0031	0.0292 \pm 0.0017
Sugar alcohol	Sorbitol	0.0700 \pm 0.0040	0.0707 \pm 0.0070
Organic acid	Butanedioic acid	0.0373 \pm 0.0028	0.0379 \pm 0.0028
Organic acid	Erythronic acid	0.0045 \pm 0.0005	0.0053 \pm 0.0009
Organic acid	Threonic acid	0.0064 \pm 0.0005	0.0057 \pm 0.0010
Organic acid	Ribonic acid	0.0043 \pm 0.0006	0.0047 \pm 0.0007
Fatty acid	Dodecanoic acid	0.0048 \pm 0.0008	0.0050 \pm 0.0006
Fatty acid	Tetradecanoic acid	0.0120 \pm 0.0012	0.0119 \pm 0.0020
Fatty acid	Pentadecanoic acid	0.0040 \pm 0.0006	0.0043 \pm 0.0007
Fatty acid	Hexadecanoic acid	0.2394 \pm 0.0110	0.2498 \pm 0.0164
Fatty acid	Heptadecanoic acid	0.0048 \pm 0.0005	0.0049 \pm 0.0007
Fatty acid	trans-9-Octadecenoic acid	0.0253 \pm 0.0017	0.0338 \pm 0.0033
Fatty acid	α -Linolenic acid	0.0322 \pm 0.0020	0.0529 \pm 0.0028
Fatty acid	Octadecanoic acid	0.2708 \pm 0.0273	0.2731 \pm 0.0079

Table S2. Metabolites identified in leaves of *A. sibiricum* infected with *E. gansuensis* (Eg+), *E. sibirica* (Es+) and endophyte-free (E–) plants from GC–MS analysis. The quantities are showed with “relative content \pm standard deviation”.

Class	Compound	Relative content		
		E–	Eg+	Es+
Amino acid	Thr	0.0214 \pm 0.0034	0.0222 \pm 0.0033	0.0220 \pm 0.0027
Amino acid	Gly	0.0051 \pm 0.0005	0.0036 \pm 0.0006	0.0041 \pm 0.0003
Amino acid	Pro	0.0331 \pm 0.0065	0.0320 \pm 0.0029	0.0359 \pm 0.0023
Amino acid	Asp	0.0398 \pm 0.0022	0.0390 \pm 0.0017	0.0402 \pm 0.0047
Amino acid	Orn	0.0069 \pm 0.0004	0.0047 \pm 0.0004	0.0048 \pm 0.0007
Amino acid	Asn	0.1671 \pm 0.0095	0.1786 \pm 0.0058	0.1785 \pm 0.0117
Amino acid	Tyr	0.0048 \pm 0.0004	0.0153 \pm 0.0021	0.0221 \pm 0.0027
Amino acid	Phe	0.0756 \pm 0.0053	0.0950 \pm 0.0045	0.0982 \pm 0.0151
Amino acid	Val	0.0068 \pm 0.0004	0.0055 \pm 0.0003	0.0050 \pm 0.0005
Amino acid	Glu	0.0043 \pm 0.0004	0.0043 \pm 0.0003	0.0042 \pm 0.0005
Amino acid	Ser	0.0044 \pm 0.0004	0.0043 \pm 0.0003	0.0043 \pm 0.0003
Sugar	Fructose	0.3100 \pm 0.0208	0.5333 \pm 0.0322	0.5600 \pm 0.0317
Sugar	Glucose	0.2459 \pm 0.0268	0.4147 \pm 0.0147	0.4368 \pm 0.0380
Sugar	Allose	0.2652 \pm 0.0151	0.4160 \pm 0.0096	0.4275 \pm 0.0274
Sugar	Sucrose	1.3474 \pm 0.0819	2.3194 \pm 0.0767	2.2509 \pm 0.0887
Sugar	Maltose	0.0378 \pm 0.0043	0.0637 \pm 0.0038	0.1102 \pm 0.0095
Sugar	Galactose	0.0236 \pm 0.0016	0.0277 \pm 0.0043	0.0235 \pm 0.0016
Sugar	Melibiose	0.0034 \pm 0.0003	0.0036 \pm 0.0003	0.0036 \pm 0.0002
Sugar	β -Gentiobiose	0.1181 \pm 0.0144	0.1539 \pm 0.0216	0.1233 \pm 0.0113
Sugar	Lyxose	0.0349 \pm 0.0015	0.0346 \pm 0.0028	0.0336 \pm 0.0024
Sugar alcohol	Glycerol	0.0437 \pm 0.0036	0.0445 \pm 0.0041	0.0497 \pm 0.0039
Sugar alcohol	Inositol	0.0595 \pm 0.0061	0.0683 \pm 0.0069	0.0514 \pm 0.0053
Sugar alcohol	Mannitol	–	0.0330 \pm 0.0033	0.0343 \pm 0.0040
Organic acid	Hexanoic acid	0.0032 \pm 0.0004	0.0034 \pm 0.0004	0.0035 \pm 0.0004
Organic acid	Butanedioic acid	0.4483 \pm 0.0228	0.4508 \pm 0.0365	0.4435 \pm 0.0400
Organic acid	Malic acid	0.0515 \pm 0.0057	0.0478 \pm 0.0046	0.0542 \pm 0.0064
Organic acid	Propanoic acid	0.0130 \pm 0.0013	0.0135 \pm 0.0012	0.0139 \pm 0.0022
Organic acid	Butanoic acid	0.1159 \pm 0.0113	0.1237 \pm 0.0219	0.1298 \pm 0.0160
Organic acid	Threonic acid	0.0036 \pm 0.0003	0.0158 \pm 0.0017	0.0141 \pm 0.0027
Organic acid	Ribonic acid	0.0038 \pm 0.0005	0.0065 \pm 0.0004	0.0044 \pm 0.0004
Organic acid	Sebacic acid	0.0628 \pm 0.0047	0.0629 \pm 0.0031	0.0683 \pm 0.0098
Fatty acid	Tetradecanoic acid	0.0240 \pm 0.0014	0.0249 \pm 0.0018	0.0249 \pm 0.0019
Fatty acid	Hexadecanoic acid	0.4493 \pm 0.0170	0.4440 \pm 0.0165	0.4532 \pm 0.0191
Fatty acid	9,12-Octadecadienoic acid	0.0443 \pm 0.0026	0.0453 \pm 0.0027	0.0458 \pm 0.0026
Fatty acid	α -Linolenic acid	0.1351 \pm 0.0123	0.1721 \pm 0.0086	0.2211 \pm 0.0160
Fatty acid	Octadecanoic acid	0.4776 \pm 0.0228	0.3545 \pm 0.0148	0.3477 \pm 0.0158
Sterol	Stigmasterol	0.0637 \pm 0.0028	0.0645 \pm 0.0022	0.0646 \pm 0.0020
Sterol	β -Sitosterol	0.1585 \pm 0.0051	0.1699 \pm 0.0171	0.1618 \pm 0.0090
Phenols	α -Tocopherol	0.0249 \pm 0.0025	0.0343 \pm 0.0024	0.0362 \pm 0.0010