

**Table S1.** Clinical characteristics of the severe sepsis patients

<b>Parameter</b>	<b>Healthy volunteers</b>	<b>SS Patients</b>	<b>P value</b>
Age, years	55.3±10.2	57.2±8.8	0.33
Sex (male/female)	360/222	340/206	0.72
BMI, kg/m <sup>2</sup>	24.15±1.27	25.32±3.52	0.69
DBP, mmHg	75.13±8.16	76.44±8.21	0.49
SBP, mmHg	147.10±22.31	145.09±23.3	0.66
		8	
Serum FBG, mmol/L	5.7±1.3	5.9±1.5	0.19
Serum TG, mmol/L	2.5±0.4	1.8±0.3	0.04
Serum TC, mmol/L	4.7±0.6	4.8±0.7	0.53
Serum insulin, mmol/L	12.4±3.7	25.9±6.1	0.0042
PCT, ng/ml	10.3±2.5	5.7±1.6	0.0006
ISS	54.6±7.2	33.5±7.7	0.0008

Note: A-AP, A-amyloid protein; BMI, body mass index; DBP, diastolic blood pressure; FBG, fasting (2 hours postprandial) blood glucose; SBP, systolic blood pressure; TC, total cholesterol; TG, triglycerides; ISS: Injury severity score. The p values less than 0.05 were considered significant.

**Table S2.** Information of SS biomarkers detected by UPLC-MS in negative ion mode

No	VIP	Rt	m/z	Compound ID	Formula	Mass Error (ppm)	Description	Anova (p)	Trend
1	15.84	2.78	165.0546	HMDB00748	C9H10O3	-1.54	3-Phenyllactic acid	0.0007	↑
2	27.83	1.62	211.0635	HMDB00913	C10H12O5	1.05	Vanillic acid	0.0021	↓
3	27.53	1.28	194.0449	HMDB06116	C9H9NO4	-1.92	3-Hydroxyhippuric acid	0.0002	↑
4	23.21	2.69	129.0556	HMDB00695	C6H10O3	-0.62	Ketoleucine	0.0035	↓
5	18.16	1.57	357.1306	HMDB01069	C16H18N6O4	-0.95	2-Phenylaminoadenosine	0.0411	↓
6	11.19	3.80	210.0796	HMDB01434	C10H13NO4	0.65	3-Methoxytyrosine	0.0032	↑

**Table S3.** ROC curve analysis of potential biomarkers in SS detected by UPLC/MS in negative ion mode

<b>No</b>	<b>Metabolite</b>	<b>AUC</b>	<b>Sensitivity (%)</b>	<b>Specificity (%)</b>
1	3-Phenyllactic acid	0.993	98.2	99.3
2	Vanillic acid	0.885	92.1	91.8
3	3-Hydroxyhippuric acid	0.981	63.2	82.4
4	Ketoleucine	0.876	93.7	92.1
5	2-Phenylaminoadenosine	0.885	81.2	97.3
6	3-Methoxytyrosine	0.802	81.3	87.2