

**Table S1** The content of 9 compounds in samples (mg g<sup>-1</sup>, n = 2)

NO.	DSS	CA	RA	LA	SAB	Dihy I	Crypto	Tan I	Tan II <sub>A</sub>	NO.	DSS	CA	RA	LA	SAB	Dihy I	Crypto	Tan I	Tan II <sub>A</sub>
ZHDS 1	0.127	0.107	1.296	0.563	38.236	0.189	1.428	0.351	2.627	BHDS 21	0.4803	0.030	9.343	1.566	65.460	0.432	2.377	0.286	2.490
ZHDS 2	0.238	0.021	3.213	1.533	51.480	0.685	3.912	0.561	3.486	BHDS 22	0.3845	0.154	2.786	0.361	42.195	0.293	2.625	0.432	2.942
ZHDS 3	0.309	0.019	1.518	1.748	36.069	0.521	3.196	0.763	4.295	BHDS 23	0.2264	0.047	2.456	1.147	51.246	0.463	2.999	0.424	4.232
ZHDS 4	0.142	0.043	0.894	0.629	39.471	0.224	3.303	0.494	3.921	BHDS 24	0.2320	0.031	3.731	2.294	53.910	0.505	2.605	0.411	3.949
ZHDS 5	0.183	0.029	2.299	1.461	62.677	0.246	2.342	0.463	2.817	BHDS 25	0.2174	0.031	2.491	1.606	63.576	0.170	1.596	0.320	3.088
ZHDS 6	0.158	0.024	1.202	1.127	40.292	0.609	4.768	0.894	3.979	BHDS 26	0.5172	0.059	7.547	3.221	52.353	0.536	2.046	0.389	2.238
ZHDS 7	0.434	0.086	2.073	0.598	54.789	0.291	2.524	0.657	4.225	BHDS 27	0.3902	0.022	2.917	4.788	65.536	2.601	5.935	1.026	7.150
ZHDS 8	0.436	0.019	1.589	2.308	37.777	0.539	2.307	0.538	2.925	BHDS 28	0.1804	0.015	2.045	1.248	42.074	0.718	3.337	0.607	4.117
ZHDS 9	0.204	0.029	1.368	2.053	35.524	0.475	2.008	0.449	2.431	BHDS 29	0.2133	0.029	2.719	0.888	47.736	0.592	3.201	0.201	2.543
ZHDS 10	0.359	0.064	4.188	1.973	52.272	0.732	0.702	0.972	2.855	BHDS 30	0.3408	0.012	3.417	2.291	58.930	0.171	1.103	0.541	3.383
ZHDS 11	0.420	0.024	2.289	2.015	51.699	0.538	2.639	0.864	4.673	BHDS 31	0.7492	0.030	4.936	4.731	60.374	0.460	2.165	0.622	3.989
ZHDS 12	0.268	0.043	1.780	1.876	56.369	0.933	4.370	1.274	6.356	BHDS 32	0.9071	0.022	3.992	5.624	70.142	0.836	4.825	0.597	4.196
ZHDS 13	0.482	0.030	2.569	3.249	51.023	0.904	3.249	1.326	6.401	BHDS 33	0.3923	0.0673	3.067	1.786	53.334	0.532	3.822	0.222	3.160
ZHDS 14	0.791	0.023	5.038	2.318	50.850	0.187	1.066	0.380	2.126	BHDS 34	0.2474	0.038	1.777	0.980	38.787	0.566	2.506	0.457	2.958
ZHDS 15	0.603	0.030	5.865	3.193	52.649	0.562	1.956	0.604	2.423	BHDS35	0.4047	0.025	3.611	1.742	57.450	0.647	7.049	0.775	5.065
ZHDS 16	0.330	0.029	2.011	1.427	57.088	0.566	3.634	0.437	3.638	BHDS 36	0.2223	0.089	1.524	2.589	46.101	0.546	3.032	0.661	3.675
ZHDS 17	0.565	0.070	6.441	2.532	58.439	0.671	2.671	0.303	2.133	BHDS 37	1.096	0.059	1.122	2.580	40.664	1.342	3.792	1.400	5.730
ZHDS 18	0.313	0.047	4.098	1.688	63.011	0.728	3.158	0.479	3.395	BHDS 38	0.6938	0.073	6.507	1.881	62.600	0.468	2.865	0.283	1.783
ZHDS 19	0.175	0.064	1.701	0.970	48.539	0.889	5.751	0.640	4.419	BHDS 39	0.397	0.026	3.983	2.536	81.519	0.872	11.052	1.266	7.600
ZHDS 20	0.251	0.024	1.795	1.497	52.012	0.554	4.082	0.717	4.238	BHDS 40	0.3228	0.052	2.026	1.590	55.611	0.444	2.553	0.622	2.585
Mean	0.339	0.0413	2.661	1.738	49.513	0.552	2.953	0.658	2.668	Mean	0.431	0.046	3.600	2.272	55.480	0.660	3.574	0.577	3.844
RSD (%)	51.570	59.786	60.735	43.964	17.533	40.025	40.614	43.614	33.331	RSD (%)	58.114	72.075	57.901	60.915	19.774	79.472	63.007	56.679	40.165