

Table S1. The collected samples of Astragali Radix and Hedysari Radix

Batch	Sample name	Crude drugs
A1	A1A	AR
	A1Pe	AR
	A1Ph	AR
	A1X	AR
A2	A2A	AR
	A2Pe	AR
	A2Ph	AR
	A2X	AR
A3	A3A	AR
	A3Pe	AR
	A3Ph	AR
	A3X	AR
A4	A4A	AR
	A4Pe	AR
	A4Ph	AR
	A4X	AR
A5	A5A	AR
	A5Pe	AR
	A5Ph	AR
	A5X	AR
A6	A6A	AR
	A6Pe	AR
	A6Ph	AR
	A6X	AR
H1	H1A	HR
	H1Pe	HR
	H1Ph	HR
	H1X	HR
H2	H2A	HR
	H2Pe	HR
	H2Ph	HR
	H2X	HR
H3	H3A	HR
	H3Pe	HR
	H3Ph	HR
	H3X	HR
H4	H4A	HR
	H4Pe	HR
	H4Ph	HR
	H4X	HR

H5	H5A	HR
	H5Pe	HR
	H5Ph	HR
	H5X	HR
H6	H6A	HR
	H6Pe	HR
	H6Ph	HR
	H6X	HR

Table S2. Venn ID of compounds in AR and HR shown in venn diagram / [Mass@Rt]

139 specific compounds in		
AR	62 specific compounds in HR	255 common compounds in AR and HR
976.4645@9.324667	960.3231@4.588375	980.4669@7.877667
958.4519@8.9296665	956.4996@6.9031672	942.5196@7.8804173
954.4808@9.330167	950.4562@8.184166	940.5045@8.48375
954.3865@4.471	912.5082@8.178333	884.2325@1.0612499
954.3854@4.612143	885.3781@5.754333	854.2297@1.03925
952.4352@8.915999	782.2762@5.95775	836.1259@1.0985833
948.4242@8.8801985	768.2607@5.3445716	832.2919@6.834
946.5141@6.7765007	723.2873@6.614909	828.2454@4.65725
946.5141@6.1580005	704.2292@4.0653634	820.1533@1.1276666
938.4605@8.918834	672.2898@5.409375	816.2847@0.8804999
936.4571@8.921333	666.2292@6.6305	806.1753@1.0929166
916.442@7.7673335	659.2582@4.5557146	804.1773@1.09725
910.4246@7.7675	651.4039@4.689909	798.2753@0.8791666
890.4652@8.93	624.2191@5.2520003	796.4619@7.8818336
868.4817@8.921666	598.3873@8.1785	796.256@5.45775
868.4146@7.209833	598.2434@7.5848336	774.2853@5.457833
858.2558@4.9709997	598.1113@8.686501	766.2455@5.4716663
848.4542@8.1455	590.1977@4.341857	764.1158@1.2311667
832.4615@8.918834	585.2218@5.384333	740.266@4.5840836
832.292@6.6671815	580.1011@7.816833	734.2759@3.91725
828.2816@5.141834	580.1009@8.625667	722.1794@1.0737499
826.4722@7.7941427	573.2578@6.5993333	719.2763@4.881084
826.4717@7.124333	564.1062@10.602166	706.2087@4.2444167
824.4519@4.9128337	557.2265@5.8786664	700.4862@4.9637504
808.1789@1.2099	520.2653@5.81075	688.2029@0.93158334
806.4437@7.2227774	516.164@4.641375	666.2289@6.4117503
804.4283@7.187834	512.1154@1.0339999	666.2226@0.90124995
792.4624@7.3286667	474.1507@4.716444	636.2235@0.87899995
790.4483@8.376143	442.1089@2.3939998	636.2186@6.509583
784.462@6.5141664	440.3656@8.170166	634.2031@7.0080833
780.4661@7.8548174	440.1091@5.7719	620.2239@7.5712495

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Table S3. NO inhibition rate of different tissues of AR and HR.

Group	Sample name	NO Inhibiton rate	
		Average	mean±SD
A	A1	31.24%	34.46%±0.179
	A2	17.83%	
	A3	22.84%	
	A4	36.54%	
	A5	68.55%	
	A6	29.77%	
APe	A1Pe	44.43%	29.63%±0.152
	A2Pe	49.21%	
	A3Pe	14.95%	
	A4Pe	23.94%	
	A5Pe	12.61%	
	A6Pe	32.63%	
APh	A1Ph	18.50%	33.07%±0.112
	A2Ph	32.62%	
	A3Ph	25.87%	
	A4Ph	46.17%	
	A5Ph	46.31%	
	A6Ph	28.96%	
AX	A1X	69.58%	59.85%±0.074
	A2X	50.66%	
	A3X	60.77%	
	A4X	58.69%	
	A5X	66.48%	
	A6X	52.92%	
HA	H1A	32.50%	34.93%±0.079
	H2A	26.67%	
	H3A	41.63%	
	H4A	34.72%	
	H5A	46.54%	
	H6A	27.50%	
HPe	H1Pe	39.41%	38.71%±0.052
	H2Pe	36.29%	
	H3Pe	37.18%	



	H4Pe	32.69%	
	H5Pe	48.18%	
	H6Pe	38.48%	
	H1Ph	43.70%	
	H2Ph	55.49%	
HPh	H3Ph	64.37%	54.39%±0.118
	H4Ph	71.89%	
	H5Ph	47.79%	
	H6Ph	43.10%	
	H1X	84.01%	
	H2X	73.24%	
HX	H3X	91.06%	69.32%±0.165
	H4X	47.94%	
	H5X	62.40%	
	H6X	57.27%	
Positive control	Quercetin	30.94%	30.94%±0.012