

CERTIFICATE OF ANALYSIS

Product Name:	Shan Yao (Granule)
Lot No:	190301
Manufacture Date:	2019/03/01
Code:	1528
Botanical Name:	<i>Dioscorea opposita</i>
English Name:	Chinese yam
Growing Region:	GuangXi, China
Plant Part	Rhizome
Extraction Solvent/s:	Water
Excipients:	None
Final Extract Ratio:	10:1
Shelf Life:	4 years
Recommended Storage Conditions:	Store in tightly sealed containers below 30°C away from direct light and moisture.

Test:	Specification:	Test Result:	Evaluation:
Organoleptic:	Light yellow granules with characteristic odour and taste	Light yellow granules with characteristic odour and taste	Conformed
Identification:	Positive by TLC	Positive by TLC	Conformed
Particle Size:	NMT 15% thru 5# and not thru 1# sieve	2%	Conformed
Moisture content:	<8.0% (w/w)	5.6%	Conformed
Solubility:	Should be totally dissolved with no foreign matter	Totally dissolved with no foreign matter	Conformed
Loading difference:	Average loading amount should be more than marked amount, minimum amount should be more than 97% of marked	Conformed	Conformed
Extract content:	>7.0%(w/w)	48.8%(w/w)	Conformed
Total Plate Count:	<1000cfu/g	<10cfu/g	Conformed
Yeast & Mould:	<100cfu/g	<10cfu/g	Conformed
E.coli:	Absent/10g	Absent/10g	Conformed
Salmonella:	Absent/10g	Absent/10g	Conformed
Lead:	<3ppm	Conformed	Conformed
Arsenic:	<3ppm	Conformed	Conformed
Cadmium:	<1ppm	Conformed	Conformed
Mercury:	<1ppm	Conformed	Conformed
Pesticide residues:	Complies with pesticide screen	278 pesticide residues are tested for and the result is none detected (ND) - see attachment	Conformed

Pesticide screen (Total 278 pieces)

No.	English Name	LOQ (mg/kg)	No.	English Name	LOQ (mg/kg)
1	2,4-D Butyl ester	0.02	140	Fluvalinate	0.02
2	4,4'-Dichlorobenzophenone	0.02	141	Formothion(unstable in concentrated form)	0.02
3	α -BHC	0.01	142	Fosthiazate	0.02
4	Acephate	0.02	143	Fthalide	0.02
5	Acetamiprid	0.02	144	Halfenprox	0.02
6	Acetochlor	0.02	145	Hexachlorobenzene (HCB)	0.01
7	Acrinathrin	0.02	146	Hexaconazole	0.02
8	α -Endosulfan	0.02	147	Hexazinone	0.02
9	Alachlor	0.02	148	Imibenconazole	0.02
10	Aldrin	0.02	149	Imibenconazole-des-benzyl	0.02
11	Allethrin	0.02	150	Indoxacarb	0.02
12	Ametryn	0.02	151	Iprobenfos	0.02
13	Anilofos	0.02	152	Iprodione	0.02
14	Aramite	0.02	153	Isazophos	0.02
15	Atrazine	0.02	154	Isocarbofos	0.02
16	Azaconazole	0.02	155	Isofenphos	0.02
17	Azinphos-methyl	0.02	156	Isofenphos-oxon	0.02
18	β -BHC	0.01	157	Isoprocarb (MIPC,Mipcin)	0.02
19	Benalaxyl	0.02	158	Isoprothiolane	0.02
20	Bendiocarb	0.02	159	Isoxathion (Karphos)	0.02
21	β -Endosulfan	0.02	160	Isoxathion oxon	0.02
22	Benfluralin	0.02	161	Kresoxim-methyl	0.02
23	Benfuresate	0.02	162	Lenacil	0.02
24	Benoxacor	0.02	163	Lindane (r-BHC)	0.01
25	Bifenox	0.02	164	Malathion	0.02
26	Bifenthrin	0.02	165	Mecarbam	0.02
27	Bitertanol	0.02	166	Mefenacet	0.02
28	Bromacil	0.02	167	Mefenpyr-diethyl	0.02
29	Bromobutide	0.02	168	Mepronil	0.02
30	Bromophos-ethyl	0.02	169	Mercaptodimethur	0.02
31	Bromophos-methyl	0.02	170	Metalaxyl	0.02
32	Bromopropylate	0.02	171	Methamidophos	0.02
33	Bupirimate	0.02	172	Methidathion	0.02
34	Buprofezin	0.02	173	Methoprene (mixture of isomers)	0.02
35	Butachlor	0.02	174	Methoxychlor	0.02
36	Butamifos	0.02	175	Metolachlor	0.02
37	Butylate	0.02	176	Metominostrobin(E)	0.02
38	Cadusafos	0.02	177	Metominostrobin(Z)	0.02

45	Carbophenothion	0.02	184	Norflurazon	0.02
46	Carboxin	0.02	185	o , p '-DDT	0.01
47	Carfentrazone-ethyl	0.02	186	Oryzalin	0.02
48	Chinomethionat	0.02	187	Oxadiazon	0.02
49	Chlorbenside	0.02	188	Oxadixyl	0.02
50	Chlorbufam	0.02	189	Oxyfluorfen	0.02
51	Chlorethoxyfos	0.02	190	p , p '-DDD	0.01
52	Chlorfenapyr	0.02	191	p , p '-DDE	0.01
53	Chlorfenson	0.02	192	p , p '-DDT	0.01
54	Chlorfenvinphos-E	0.02	193	Paclobutrazol	0.02
55	Chlorobenzilate	0.02	194	Parathion	0.02
56	Chloroneb	0.02	195	Parathion-methyl	0.02
57	Chlorpropham	0.02	196	Penconazole	0.02
58	Chlorpyrifos	0.02	197	Pendimethalin	0.02
59	Chlorpyrifos-methyl	0.02	198	Permethrin	0.02
60	Chlorthal-dimethyl(Dacthal)	0.02	199	Perthane	0.02
61	Chlozolate	0.02	200	Phenothrin	0.02
62	Cinidon-ethyl	0.02	201	Phenthoate	0.02
63	Clomazone	0.02	202	Phorate	0.02
64	Cyanazine	0.02	203	Phosalone	0.02
65	Cyanophos	0.02	204	Phosmet	0.02
66	Cyfluthrin	0.02	205	Phosphamidon	0.02
67	Cyhalofop-butyl	0.02	206	Picolinafen	0.02
68	Cyhalothrin	0.02	207	Piperonyl butoxide	0.02
69	Cypermethrin	0.02	208	Piperophos	0.02
70	Cyproconazole	0.02	209	Pirimicarb	0.02
71	δ-BHC	0.01	210	Pirimiphos-methyl	0.02
72	DEF(Tribufos)	0.02	211	Pretilachlor	0.02
73	Deltamethrin	0.02	212	Procymidone	0.02
74	Demeton-s-methyl	0.02	213	Profenofos	0.02
75	Diallate	0.02	214	Prohydrojasmon	0.02
76	Diazinon	0.02	215	Prometryn	0.02
77	Dichlofenthion	0.02	216	Propachlor	0.02
78	Dichlofluanid	0.02	217	Propanil	0.02
79	Dichlorvos (DDVP)	0.02	218	Propaphos	0.02
80	Diclocymet	0.02	219	Propargite(BPPS)	0.02
81	Diclofop-methyl	0.02	220	Propazine	0.02
82	Dicloran	0.02	221	Propiconazole	0.02
83	Dicrotophos	0.02	222	Propoxur	0.02
84	Dieldrin	0.02	223	Propyzamide	0.02

91	Dimethipin	0.02	230	Pyridaben	0.02
92	Dimethoate	0.02	231	Pyridaphenthion	0.02
93	Dimethylvinphos	0.02	232	Pyrifenox(E)	0.02
94	Dioxathion	0.02	233	Pyrifenox(Z)	0.02
95	Diphenamid	0.02	234	Pyrimethanil	0.02
96	Disulfoton	0.02	235	Pyrimidifen	0.02
97	Disulfoton sulfone	0.02	236	Pyriminobac-methyl(E)	0.02
98	Edifenphos	0.02	237	Pyriminobac-methyl(Z)	0.02
99	Endrin	0.02	238	Pyriproxyfen	0.02
100	EPN	0.02	239	pyroquilon	0.02
101	Epoxiconazole	0.02	240	Quinalphos	0.02
102	EPTC	0.02	241	Quinoclamine	0.02
103	Esprocarb	0.02	242	Quinoxifen	0.02
104	Ethalfuralin	0.02	243	Quintozene	0.01
105	Ethiofencarb	0.02	244	Resmethrin	0.02
106	Ethion	0.02	245	S421	0.02
107	Ethofenprox	0.02	246	Silafluofen	0.02
108	Ethofumesate	0.02	247	Simazine	0.02
109	Ethoprophos	0.02	248	Simetryn	0.02
110	Etoxazole	0.02	249	Spirodiclofen	0.02
111	Etrimfos	0.02	250	Spiroxamin	0.02
112	Fenamidone	0.02	251	TCMTB	0.02
113	Fenamiphos	0.02	252	Tebuconazole	0.02
114	Fenarimol	0.02	253	Tebufenpyrad	0.02
115	Fenbuconazole	0.02	254	tecnazene	0.02
116	Fenclorphos	0.02	255	Tefluthrin	0.02
117	Fenitrothion	0.02	256	terbacil	0.02
118	Fenobucarb	0.02	257	Terbucarb (MBPMC)	0.02
119	Fenothiocarb	0.02	258	Terbufos	0.02
120	Fenoxanil	0.02	259	Tetrachlorvinphos	0.02
121	Fenpropathrin	0.02	260	Tetraconazole	0.02
122	Fenpropimorph	0.02	261	Tetradifon	0.02
123	Fensulfothion	0.02	262	Thenylchlor	0.02
124	Fenthion	0.05	263	Thifluzamide	0.02
125	Fenvalerate	0.05	264	Thiobencarb	0.02
126	Fipronil	0.02	265	Thiometon	0.02
127	Flampropmethyl	0.02	266	Tolclofos-methyl	0.02
128	Fluacrypyrim	0.02	267	Tolfenpyrad	0.02
129	Flucythrinate	0.02	268	Triadimefon	0.02
130	Fludioxonil	0.02	269	Triadimenol	0.02

137	Fluthiacet methyl	0.02	276	Vinclozolin	0.02
138	Flutolanil	0.02	277	XMC	0.02
139	Flutriafol	0.02	278	Zoxamide	0.02