NATURE SCIENCE TECHNOLOGIES

E-mail: inquiries@nstchemicals.com
nstchemicals.com
Phone: +371 24220280

QUALITY SPECIFICATION

Xanthohumol

Catalog No.: NST-10-189

CAS No.: 6754-58-1

Molecular formula: $C_{21}H_{22}O_5$

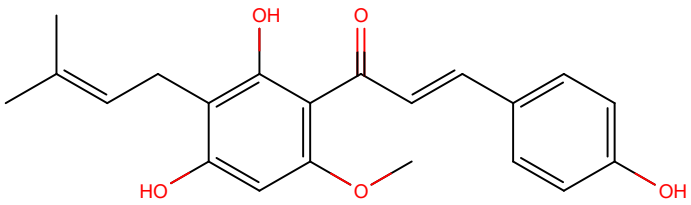
MW: 354.4

Botanical name: *Humulus lupulus L.*

Part used: flower

Solvent used: water and ethanol

Shelf life: 2 years



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Brown	Visual
3.	Identification	Conforms	TLC
4.	Assay	≥5.0 %	HPLC
5.	Odor	Characteristic	Organoleptic
6.	Taste	Characteristic	Organoleptic
7.	Mesh size/sieve	≥95% pass 80 mesh	80 mesh
8.	Bulk density	≤0.8 g/ml	Density meter
9.	Ashes	≤5.0 %	2 g/525°C/3h
10.	Loss on drying	≤5.0 %	5 g/105°C/2h
11.	Heavy Metals	≤10 ppm	ICP-MS
12.	Lead	≤2 ppm	ICP-MS
13.	Arsenic	≤1 ppm	ICP-MS

14.	Mercury	≤0.1 ppm	ICP-MS
15.	Cadmium	≤1 ppm	ICP-MS
16.	TPC	$<10^3$ CFU/g	AOAC,BAM
17.	TYMC	$<10^2$ CFU/g	AOAC,BAM
18.	*Escherichia Coli*	Absent	AOAC,BAM
19.	*Salmonella*	Absent	AOAC,BAM
20.	*Staphylococcus aureus*	Absent	AOAC,BAM

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored