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Technical Data Sheet

Product and Batch Information	
Product Name:	Thermopsis lanceolata Extract Powder
Botanic name.:	<i>Thermopsis lanceolata</i>
Active ingredient:	Cytisine
Country of Origin:	P.R. China

Item	Specification	Test Method
Active Ingredients		
Assay(% ,On Dried Base)	Cytisine $\geq 98.0\%$	HPLC
Physical Control		
Appearance	Light yellow or white crystalline powder	Visual
Odor	Characteristic	Organoleptic
Taste	Characteristic	Organoleptic
Loss on Drying	0.5% Max	USP
Ash	0.2% Max	USP
Identification	Positive	IR,UV, HPLC & Colour reaction
Melting point	154°C~157°C	USP
Optical rotation	-120° to -125°	USP
Clarity of the solution	Not more intensely opalescent than reference suspension II	USP
Color of the solution	Not more intensely coloured than reference solution Y1	USP
Solubility	Freely soluble in water, methanol, ethanol, , soluble in acetonitrile and chloroform	USP
Part of Plant Used	Dried Seed	/
Solvents Used	Purified Water&Ethanol	/
Chemical Control		
Heavy metals	10ppm Max	Atomic Absorption
Arsenic	2ppm Max	Atomic Absorption
Lead	2ppm Max	Atomic Absorption
Related substance	-N-methylcytisine $\leq 0.5\%$	USP
	-N-formylcytisine $\leq 0.5\%$	USP
	-Total-impurities $\leq 1.0\%$	USP
Chlorides	$\leq 0.020\%$	USP
Residue on solvents	$\leq 0.50\%$	USP
Residue of Pesticide	Negative	USP
Microbiological Control		
Total Plate Count	10,000cfu/g Max	USP
Yeast & Mold	300cfu/g Max	USP
E.Coli	Negative	USP
Salmonella sp.	Negative	USP
Packing and Storage		
Packing	Pack in 1kg/Aluminum foil bag.	
Storage	Store in a well-closed container away from moisture and direct sunlight.	
Shelf Life	24 months if sealed and stored properly.	

Manufactured by Yangling Haotian Bio-technology

Commercialized by Wuxi Cima Science Co., Ltd.