TECHNIQUE DATA SHEET

IDEBENONE

1、Brief Introduction

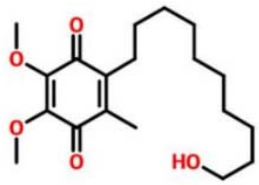
Product name: Idebenone

Synonyms: 6- (10-hydroxydecyl) -2,3-dimethoxy-5-methylbenzoquinone

Molecular Formula: C19H30O5

Molecular weight: 338.44

CAS#58186-27-9

	
Chemical Structure	Powder

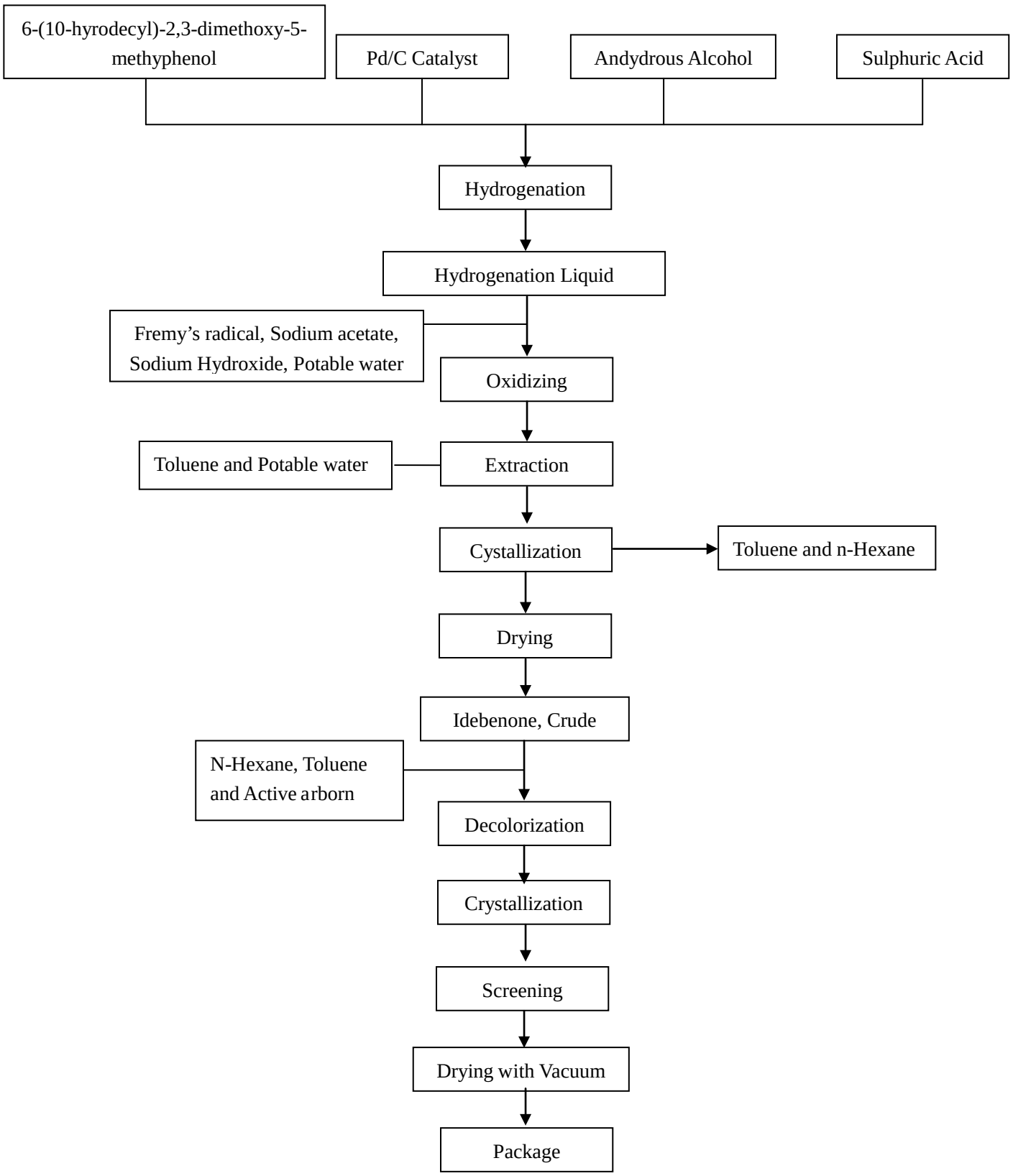
2、Specification

Items	Specification
Product name	Idebenone
CAS NO.:	58186-27-9
The country of origin:	China
Assay(HPLC)	≥98.5%,anhydrous substance
Description	An orange yellow or yellow crystalline powder
Melting Range	52-55℃
Loss on Drying	≤0.1%
Residue on Ignition	≤0.1%
Solubility	Insoluble in water, very soluble in methanol,chloroform,freely soluble in anhydrous alcohol and ethyl acetate.
$E^{1\%}_{1cm}$	458-486
Total Heavy Metals	≤10.0ppm
Impurities	≤0.8%
Residue Solvents	Hexane≤0.029%
	Methanol≤0.3%

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	Toluene≤0.089%

3、Flow Chart



4. Usage& Application:

4.1 Pharmaceutical

Idebenone is a kind of intelligent promotion medicine developed and marketed by Takeda Pharmaceutical Industry Co., Ltd. in 1986; Activation of the function of the mitochondria, improve brain function metabolism and brain dysfunction, can improve the utilization of glucose in the brain, and promote ATP generation;

Can improve brain neurotransmitter 5-HT metabolism, with strong antioxidant and scavenging free radicals.

Mainly used in the clinical treatment of oxidative stress-related central nervous system degenerative diseases such as Parkinson's disease, Alzheimer's disease, multi-infarct dementia, cerebral anemia and cerebral failure, also used in Friedreich Ataxia treatment

4.2 Cosmetics

Used in cosmetic formulations, with the functions of scavenging free radicals, inhibiting lipid peroxidation, inhibiting inflammation, inhibiting DNA damage, protecting light and reducing pigmentation.

5、Storage condition & Shelf life:

Storage Condition: Preserve in tight containers at controlled room temperature.

After the container is opened, the material should be used out in a short time, and keep sealed when not in use.

Shelf life: 24 months when stored properly.