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Certificate of Analysis

Product Name	Esculin 98%		
CAS No.	66778-17-4	Used Part	Seed
Production Date	2020-03-12	Batch No.	QE20200312
Expiry Date	2022-03-11	Report Date	2020-03-17
ITEMS	SPECIFICATIONS		RESULTS
Assay(HPLC)			
Esculin(%)	≥97		99.1
Test Standard: European Pharmacopoeia			
Physical Control: Thin layer plate in the corresponding position			
Identification	in the same reference point		Complies
Appearance	Off-white to white powder		Complies
Odor	Characteristic		Complies
Particle Size	95%Pass 80 mesh		99.9
Absorbance (Esculetin,570nm)	≤0.050		0.028
pH	3.8~4.5		4.2
Bulk density (g/cm ³)	≤0.350		0.298
Tap density(g/cm ³)	≤0.650		0.559
Specific rotation(°)	-87.0~-84.4		-86.1
Moisture(%)	6.5~7.5		6.7
Sulfated Ash(%)	≤0.10		0.08
Residual			
Solvents(ethanol)(PPM)	≤5000		Complies
Heavy metal(PPM)	≤20		Complies
Microbiological Control			
Total Plate Count(CFU/g)	≤1000		Complies
Total Yeast & Mold(CFU/g)	≤100		Complies
Salmonella	Negative		Complies
E.Coli			
Staphylococcus			
Conclusion	Conform to the standard.		
Packing	25kg/drum		
Storage and Handling	Under a cool,dry,dark and airtight place, keep away from direct strong and heat.		
Shelf life	Two years if sealed and store away from direct sun light.		

QC: Li Ting

QA: Tian Wen

