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Certificate of Analysis

Product Name:	Dehydroepiandro-sterone (DHEA)	Batch No.:	C04-180423
Quantity:	15kg	Packaging:	15kg/drum
Manuf. Date:	Apr. 16, 2018	Test Date:	July 10, 2018
Re-test Date:	Apr. 15, 2021	Report Date:	July 16, 2018
Standard:	FP		
Items	Specifications	Results	
1. Appearance:	White or almost white crystalline powder	White crystalline powder, Micronized	
2. Assay (HPLC):	98.0% to 102.0%	100.1%	
3. Identification: IR	The IR spectrum of sample should be corresponds to that of working reference standard.	Complies	
4. Melting range:	148°C to 151°C	149°C to 150°C	
5. Specific rotation:	+ 11.0° to +14.0°	+13.1°	
6. Water:	1.0% Max.	0.09%	
7. Sulphated ash:	0.1% Max.	0.04%	
8. Heavy metals(Pb):	10ppm Max.	<10ppm	
9. Hydroxylamine:	5ppm Max.	<5ppm	
10. Related substances:	Impurity A: 0.10% Max.	Not detected	
	Impurity B: 0.10% Max.	Not detected	
	Impurity C: 0.02% Max.	Not detected	
	Impurity D: 0.10% Max.	Not detected	
	Impurity E: 0.10% Max.	0.03%	
	Impurity F: 0.08% Max.	Not detected	
	Any unspecified impurity:0.10% Max.	RRT0.51 <0.025% RRT0.60 0.05% RRT0.88 <0.025% RRT3.18 0.04%	
	Total impurity: 0.50% Max.	0.12%	
11. Residual solvents :	Methanol: 1500ppm Max. Ethanol: 2000ppm Max. Toluene: 890ppm Max. Pyridine: 50ppm Max.	145ppm <LOQ(32.1ppm) Not detected Not detected	
12. Particle size:	90% pass 50 µ m; 50% pass 15 µ m	Complies	
Conclusions:	The product conforms to FP.		

QA Manager: 郭志峰

Reported by: 张明