Attix Pharmaceuticals

Certificate of Analysis

Progesterone

(USP31, Ultra-micronized, from Yam)

Product Name: Progesterone **Batch No:** 101101

Mfg. date: Nov 01, 2010 **Retest Date:** Nov 01, 2013

CAS Number: 57-83-0 **Batch Qty:** 50kg

TESTS	SPECIFICATIONS	RESULTS
Appearance	White or creamy white crystalline powder	Complied
ID test	IR & UV: As per standard	Complied
Solubility	Practically insoluble in water, soluble in alcohol, in acetone and in dioxane, sparingly soluble in vegetable oil.	Complied
Melting point	126°C – 131°C	128°C – 130°C
Specific rotation	+175° ~ +183°	+178°
Loss On Drying	≤ 0.5%	0.2%
Related substances	Any impurity: ≤ 0.5% Total impurities: ≤ 0.8%	Complied 0.43%
Residual solvents	Methonal ≤ 129 ppm	Complied
	Ethanol ≤ 2500 ppm	Complied
	Petroleum ether ≤ 108 ppm	Complied
	Toluene ≤ 15 ppm	Complied
	Cyclohexanone ≤ 16.5 ppm	Complied
Particle size	≥ 95% below 5μm	Complied
Assay	97.0 % – 103.0%	98.8%
Conclusion: The product meets the USP31 specifications. Storage: Stored in a cool and dry place.		

Note: The above information is based on our manufacturer's product Certificate of Analysis.

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