

## Certificate of analysis

# Flutamide

CAS No.	13311-84-7	Code	BIOJFLU001
Batch No	F20230902	Manufacture Date	Sep.05, 2023
Expiry Date	Sep.04, 2026	Quantity	7Kg

Testing Items	Specifications	Results
Appearance	Pale yellow crystalline powder	Pale yellow powder
Identification	A: IR Absorption B: HPLC	Complies Complies
Melting range	110 °C ~114 °C (does not exceed 2 °C)	111 °C ~113 °C
Loss on drying	≤0.5%	0.12%
Residue on ignition	≤0.1%	0.05%
Related Compounds	4-Nitro-3-trifluoro-methylacetanilide ≤0.2% 4-Nitro-3-trifluoro-methylaniline ≤0.15% 3- trifluoromethylaniline ≤0.2% 4-Nitro-3-trifluoromethylpropionanilide ≤0.3% 3- trifluoromethylisobutyranilide ≤0.2% o-Flutamide ≤0.2% Unknown(relative response:1.0) ≤0.05% Total unknown ≤0.1% Total Impurities ≤0.4%	0.08% 0.12% Not detected 0.05% Not detected 0.03% Not detected Not detected 0.21%
Residual solvents	Methanol ≤3000ppm	<3000ppm
Solubility	Freely soluble in acetone, ethyl acetate. Soluble in chloroform. Practically insoluble in mineral oil, petroleum ether and water	Complies
Heavy Metals	≤10ppm	Not detected
Assay	98.0%~101.0%(Calculated on the dried basis)	99.7%
Conclusion	This product conforms to USP40 standard	

**\*Storage condition: Store below 25°C, Protect from moisture and light.**