

## CERTIFICATE OF ANALYSIS

Product Name:ValsartanManufacture Date:Jul. 02,2019Batch Number:SA190702Analysis Date:Jul. 17,2019Batch Quantity:50kgCertificate Date:Jul. 17,2019CAS:137862-53-4Specification StandardUSP41

ANALYSIS	SPECIFICATION	RESULTS
Appearance	White or almost white powder	Conforms
Identify	Infrared absorption: The IR spectrum of the sample corresponds to the IR spectrum of the RS	Conforms
	Identity Test of HPLC: The retention time of the Assay preparation corresponds to the Standard preparation	Conforms
Specific rotation	-64.0° ∼-69.0°	-66.0°
Absorbance	≤0.02	Conforms
Water	≤2.0%	0.2%
Residue on ignition	≤0.1%	0.05%
Heavy metals	≤0.001%	Conforms
Ralated compound	Valsartan related compound A: NMT 1.0%	0.7%
	Valsartan related compound B: NMT 0.2%	Conforms
	Valsartan related compound C: NMT 0.1%	Conforms
	Valsartan related compound D: NMT 0.1%	Conforms
	NDMA: NMT0.3PPM	Negative
	NDEA: NMT0.3PPM	Negative
	NDIPA: NMT0.3PPM	Negative
	NMBA: NMT0.3PPM	Negative
	EIPNA: NMT0.3PPM	Negative



	Not more than 0.10% of any other individual impurity, excluding Valsartan related compound A	Conforms
	Not more than 0.3% of total impurities, excluding Valsartan related compound A	Conforms
	DMF≤880ppm	Negative
	Toluene≤890ppm	Negative
	Methano≤13000ppm	Negative
Related Solvents	Ethyl acetate≤5000ppm	0.35%
	Acetonitrile≤410ppm	Negative
	Valeric acid≤1000ppm	Negative
	Ben zene≤2ppm	Negative
Assay	Caculate on anhydrous, it contains not less than 98.0% and not more than 102% of Valsartan	99.1%

Test by: Wenling Sun Check by: Yuxia Chen Issued by: Yajian Hou

**Conclusion** Comply with required USP 41 specification

**Storage** Store in sealed containers at cool & dry place.

Protect from light, moisture and pest infestation.

**Shelf life** 3 years when properly stored

Quality Assurance Officer: 西安素克生物技术有限公司 SALUS NUTRA INC.