



JINANCHENGHUI-SHUANGDA CHEMICAL CO.,LTD

济南诚汇双达化工有限公司

## 质检报告

Name		Structure	
Molnupiravir, ((2R,3S,4R,5R)-3,4-dihydroxy-5-(4-(hydroxyamino)-2-oxopyrimidin-1(2H)-yl)tetrahydrofuran-2-yl)methyl isobutyrate			
CAS No.	2349386-89-4		
Batch number	LF210604	Report date	2021.06.23
Producing date	2021.06.19	Retest date	2022.06.18

Items	Specifications	Results
Appearance	White to off-white powder	off-white powder
Solubility	Sparingly soluble in water or ethanol, almost insoluble in dichloromethane	Complies
Melting point	158~163°C	159~162°C
Identification	UV: The maximum absorption is at 235nm and the minimum absorption is at 261nm	Complies
	HPLC: The retention time of main peak of test product is consistent with that of standard	Complies
Related Substance	CD NMT 0.1%	N.D.
	MPLW01 NMT 0.1%	0.01%
	MPLW02 NMT 0.1%	N.D.
	Any unspecific individual impurity NMT 0.1%	0.02%
	Total impurity NMT 1.5%	0.04%
Residue of solvents	n-Heptane NMT 0.5%	0.03%
	Methanol NMT 0.3%	N.D.
	Isopropanol NMT 0.5%	N.D.
	Ethyl acetate NMT 0.5%	N.D.
	Acetonitrile NMT 0.041%	N.D.
	Methylene dichloride NMT 0.06%	N.D.
	Tetrahydrofuran NMT 0.072%	N.D.
	Triethylamine NMT 0.5%	N.D.
2,2-dimethoxypropane NMT 0.1%	N.D.	
Water content	NMT 1.0%	0.38%
Residue on ignition	NMT 0.1%	0.09%
Heavy metals	NMT 10ppm	Complies
Assay (HPLC)	98.0%~102.0%	99.8%
Conclusion	The product conforms to the above specifications	
Storage	Sealed preservation at room temperature	