

# SHANDONG OCTAGON CHEMICALS LIMITED

## CERTIFICATE OF ANALYSIS

Product name	Vorapaxar Sulfate (Cas 705260-08-8)		
Batch No.	20200301	Mfg. date	2020.03.20
Rep. Date	2020.03.28	Exp. date	2022.03.19
Packaging	10g/Bottle	Batch Size	15g
Test Items	Standards: Enterprise		Results
Appearance	White to off-white powder		White powder
Identification	HPLC/1HNMR		Conforms
Water	NNT1.0%		0.27%
Residue on Ignition	NMT0.5%		0.03%
Heavy metals	Not more than 20ppm		<20ppm
Related substances	Single impurity: NMT0.1% Total impurities: NMT1.0%		0.06% 0.27%
Residual Solvents	Should conform		Conforms
Sulfate	15.0%~18.0%		16.9%
Assay	NLT98.0%		98.9%
Conclusion	It meets the requirements of Enterprise Standards		
Storage	Store in a well-closed container at ambient temperature		
Prepared by: LI	Reviewed by: WEI	Released by: Zhang	