



上海朗旭生物科技有限公司

Shochem (Shanghai) Co.,Ltd

No.1305, Huajing Rd, East China Science & Technology Park Shanghai,China

Certificate of Analysis

PRODUCT	Cyclotris(1,4-butylene Terephthalate)		
CAS	63440-94-8	M.W.	660.66
BATCH No.	PBT320200901	QUANTITY	500MG
MANUFACTURE DATE:	Sep, 2020	RETEST DATE :	Sep, 2022

<u>TEST</u>	<u>SPECIFICATION</u>	<u>RESULT</u>
APPEARANCE	White to offwhite solid	Complies
IDENTIFICATION : HNMR, MS	Consistent with structure	Complies
Purity (HPLC)	$\geq 98.0\%$	99.49%
TOTAL IMPURITIES	$\leq 2.0\%$	0.51%
CONCLUSION	It conforms to the Enterprise Standard	



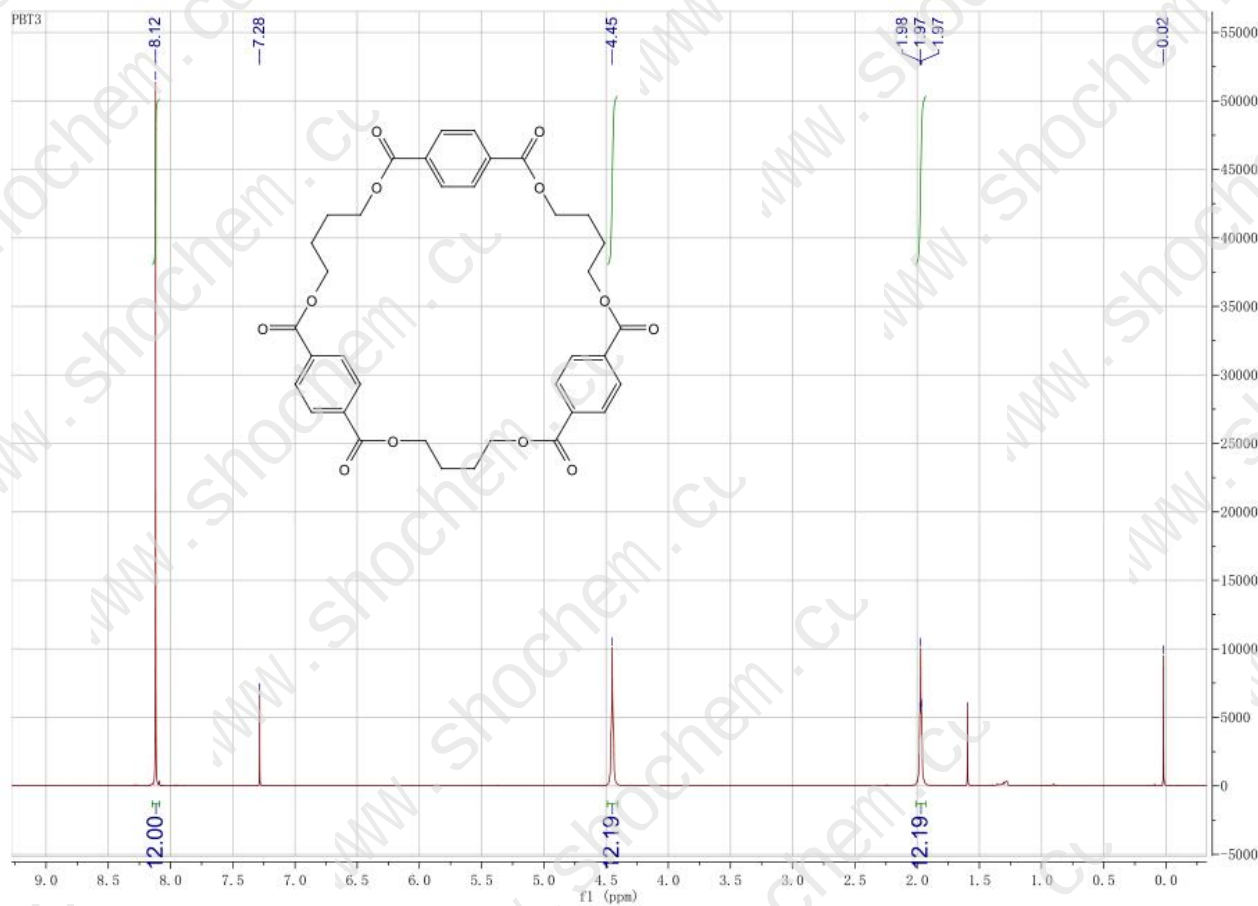


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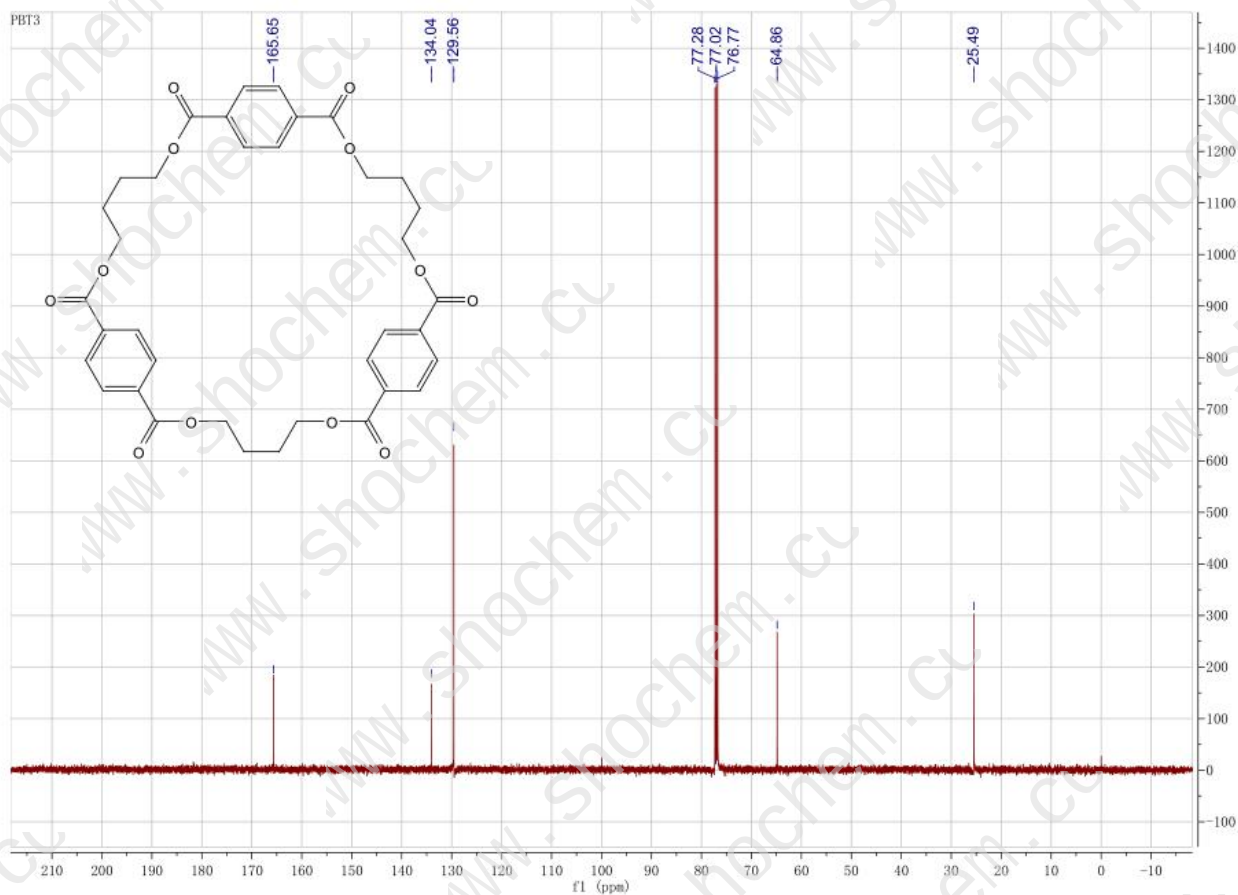
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¹H NMR





¹CNMR





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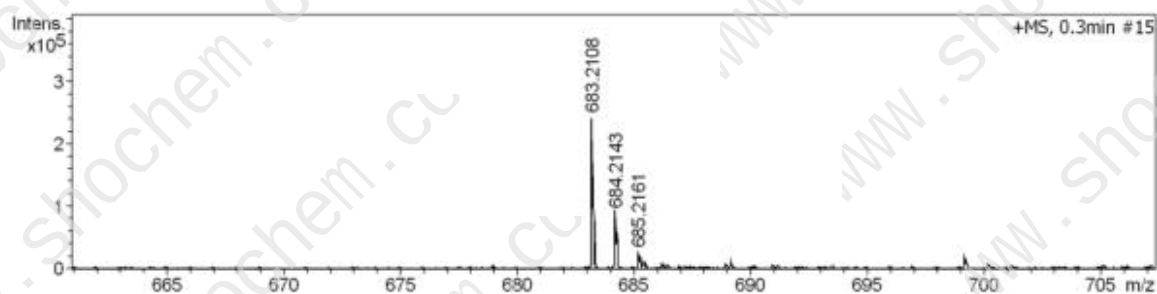
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MS

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	6.0 l/min
Scan End	1200 m/z	Set Collision Cell RF	800.0 Vpp	Set Divert Valve	Waste



#	m/z	Res.	S/N	I	I %	FWHM
1	683.2108	18835	315.4	240316	100.0	0.0363
2	684.2143	11502	114.9	87644	36.5	0.0595
3	685.2161	13918	32.3	24700	10.3	0.0492

Meas. m/z	#	Ion Formula	m/z	err [ppm]	mSigma	Score	rdb	e ⁻ Conf	N-Rule
683.2108	1	C36H36NaO12	683.2099	-1.3	18.3	1	100.00	18.5 even	ok

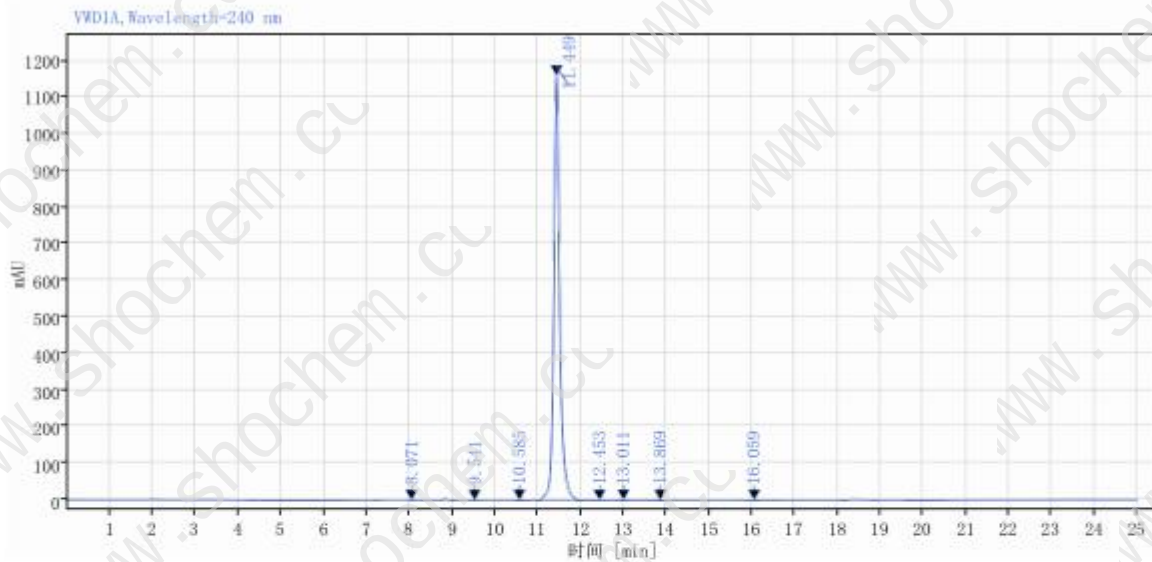


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HPLC



信号: VWD1A, Wavelength=240 nm

保留时间 [min]	类型	峰宽 [min]	峰面积	高度	峰面积%	峰 理论塔板数	EP	峰 拖尾因子	峰 峰高%	峰 分离度 EP
8.071	BB	0.25	5.28	0.81	0.05	20274.66631		1.84622	0.07	
9.541	BB	0.33	5.91	0.85	0.05	47940.78716		0.97762	0.07	7.35087
10.585	BB	0.26	6.26	0.96	0.05	54832.17893		1.22349	0.08	5.89204
11.449	BB	1.37	11581.21	1160.54	99.49	37276.90389		1.25402	99.51	4.14219
12.453	BB	0.38	3.37	0.36	0.03	41195.56492		0.89681	0.03	4.18295
13.011	BB	0.57	9.03	0.81	0.08	32549.83539		0.83816	0.07	2.09084
13.869	BB	0.79	14.60	1.06	0.13	32384.14057		0.74504	0.09	2.87900
16.059	BB	1.03	14.58	0.89	0.13	26075.79601		1.59024	0.08	6.22930
总和			11640.24							