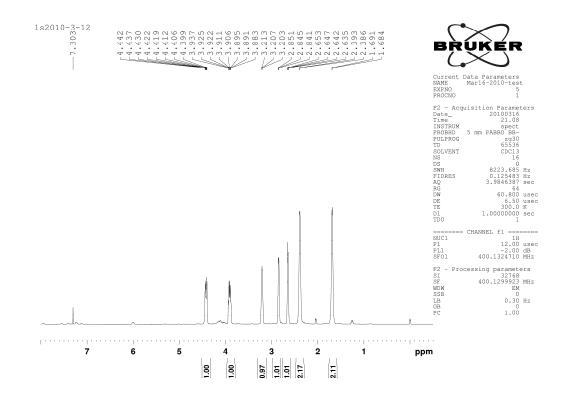
## Supplementary information:

# Biodegradable cross-linked poly(amino alcohol esters) based on LMW PEI for gene delivery

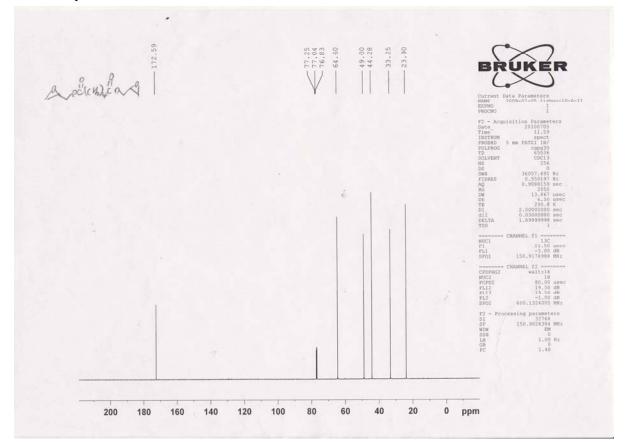
Shuo Li, Yu Wang, Ji Zhang<sup>\*</sup>, Wei-Han Yang, Zhen-Hua Dai, Wen Zhu<sup>\*</sup>, and Xiao-Qi Yu<sup>\*</sup>

Characterization of compound 2a······S1
Characterization of compound 2bS3
Characterization of compound 2c·····S5
Characterization of DA-PEI 3a-S7
Characterization of DS-PEI 3bS8
Characterization of DO-PEI 3cS9
GPC sheetsS10

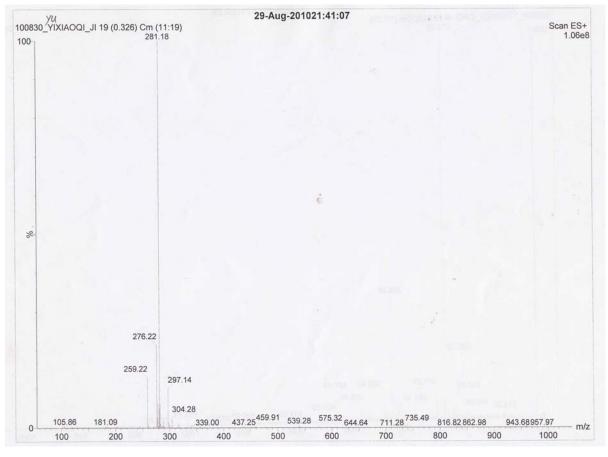
#### <sup>1</sup>H NMR spectrum of **2a**



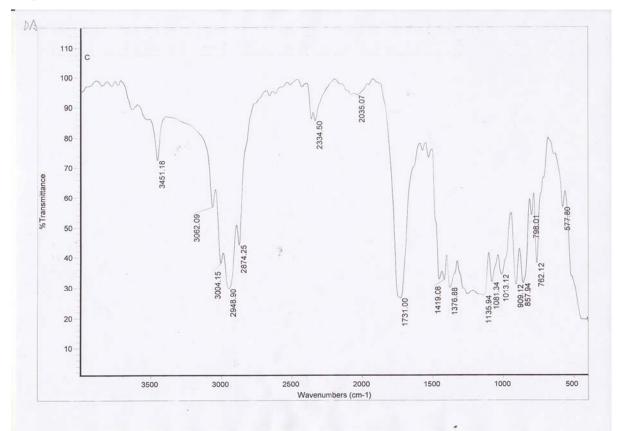
<sup>13</sup>C NMR spectrum of 2a



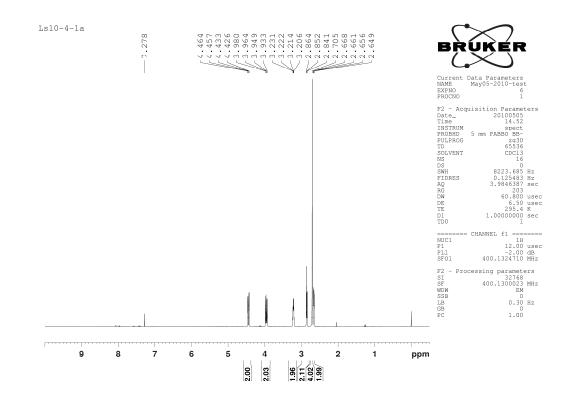
#### MS of 2a



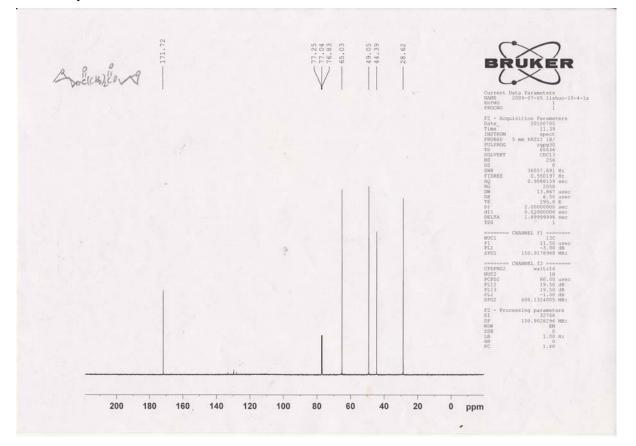
#### IR spectrum of 2a



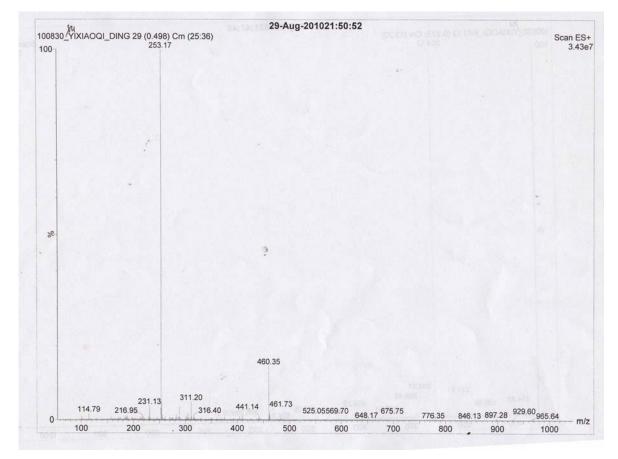
#### <sup>1</sup>H NMR spectrum of **2b**



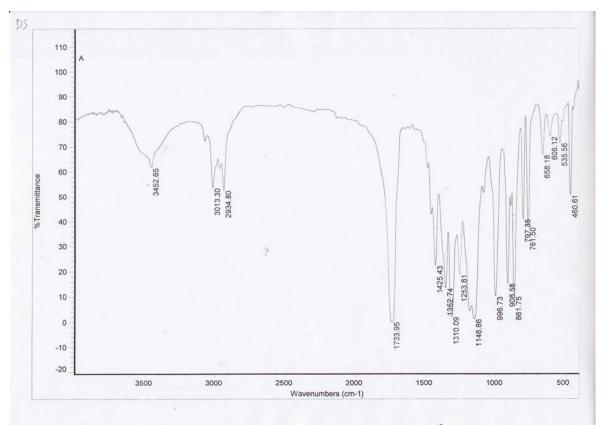
<sup>13</sup>C NMR spectrum of **2b** 



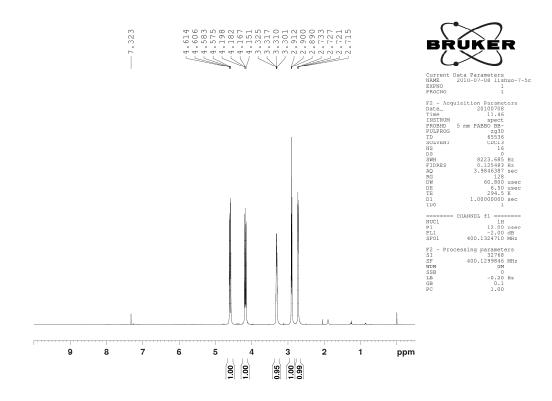
#### MS of $\mathbf{2b}$



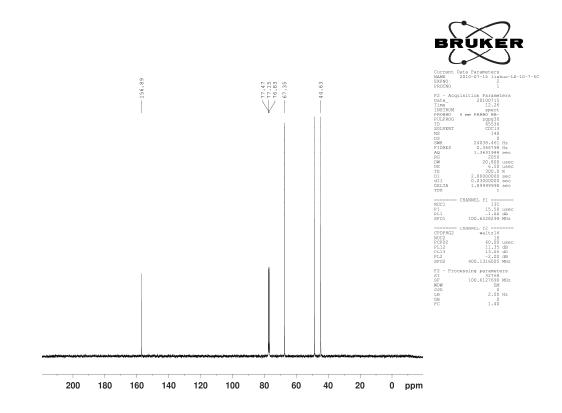
#### IR spectrumof 2b



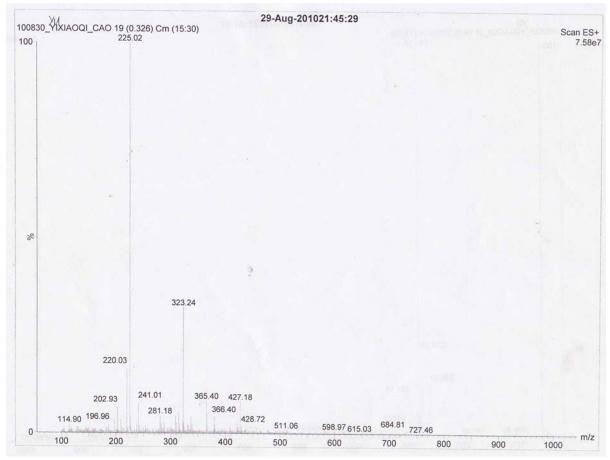
### <sup>1</sup>H NMR spectrum of **2c**



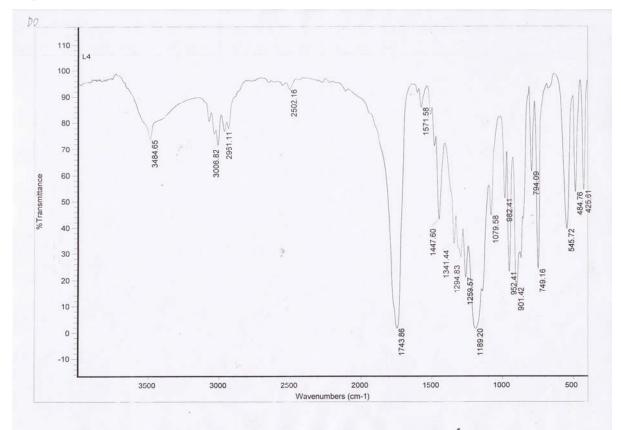
<sup>13</sup>C NMR spectrum of **2c** 



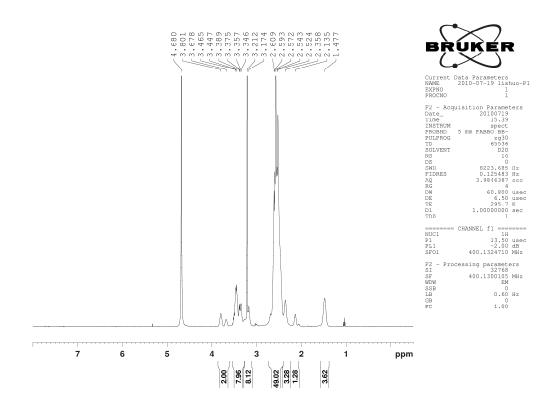


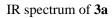


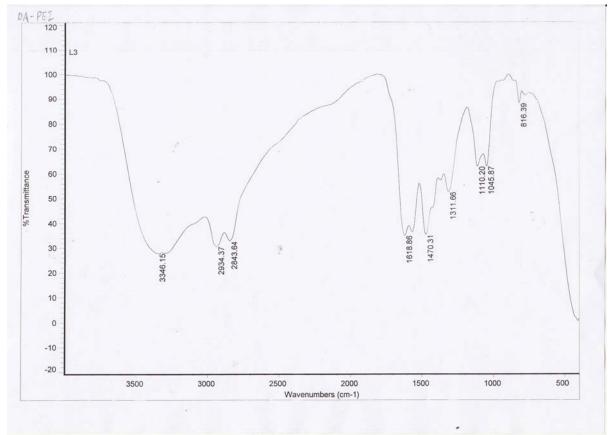
#### IR spectrum of 2c



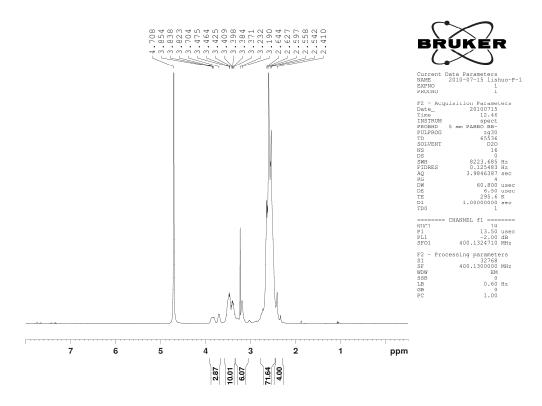
### <sup>1</sup>H NMR spectrum of **3a**



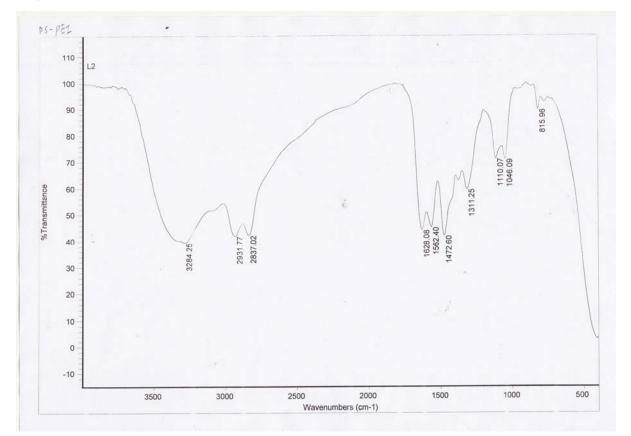




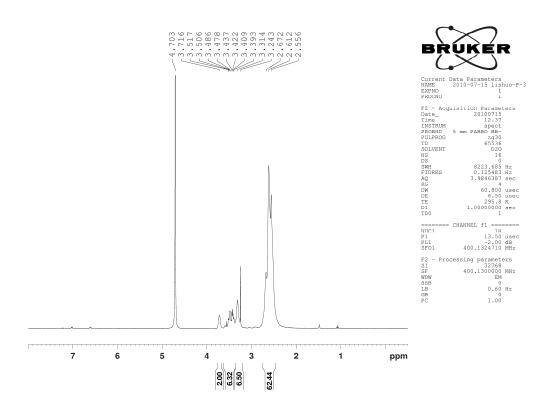
### <sup>1</sup>H NMR spectrum of **3b**

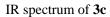


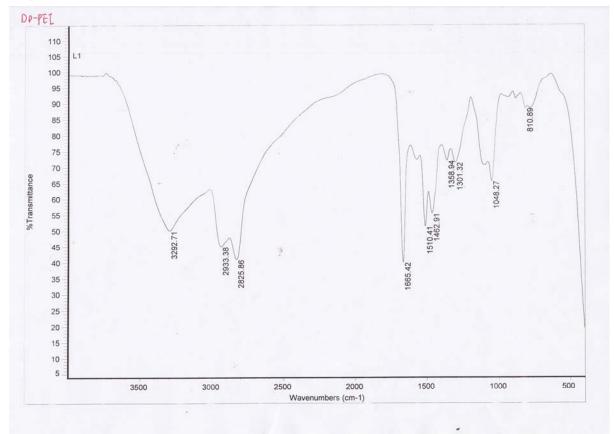
IR spectrum of 3b

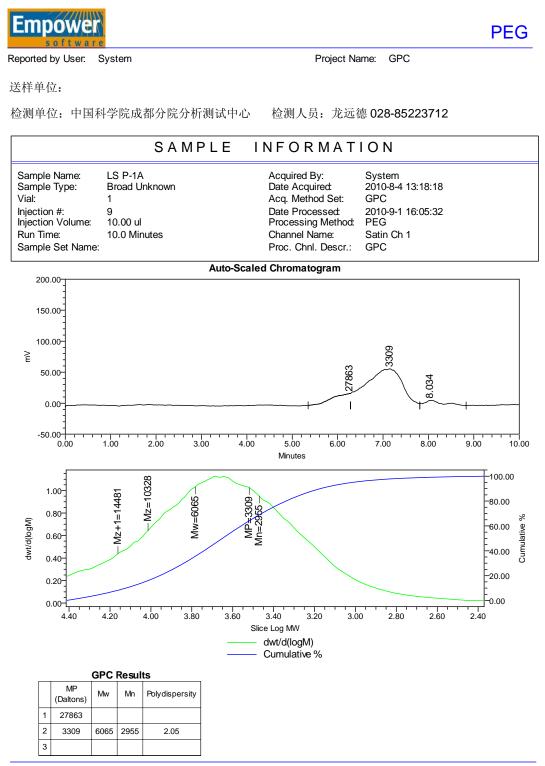


### <sup>1</sup>H NMR spectrum of **3c**



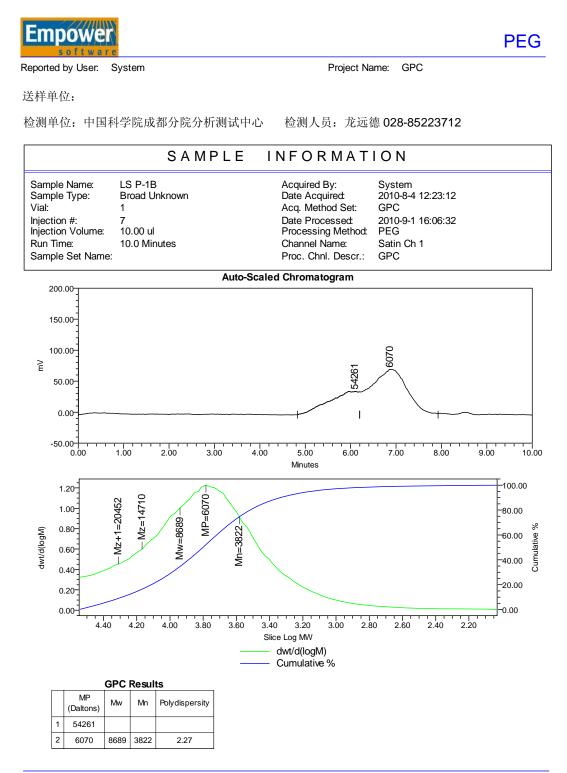






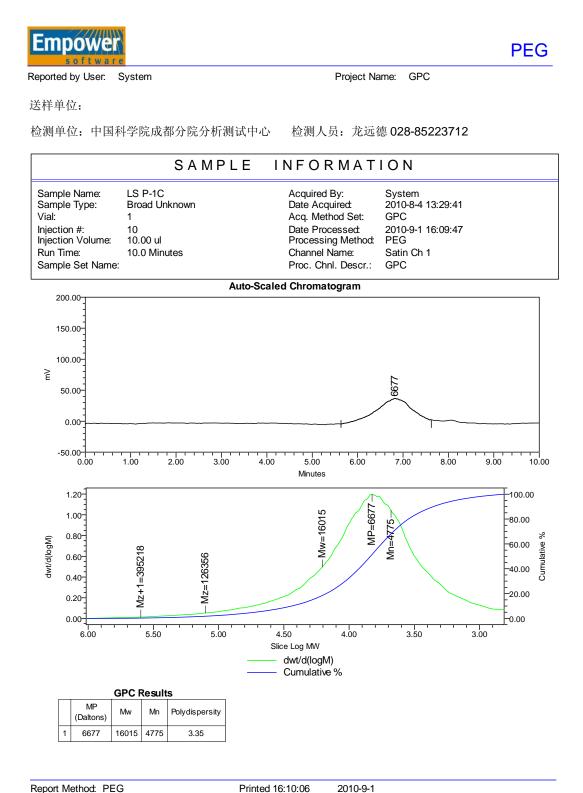
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Report Method: PEG

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Report Method: PEG

Printed 16:10:06



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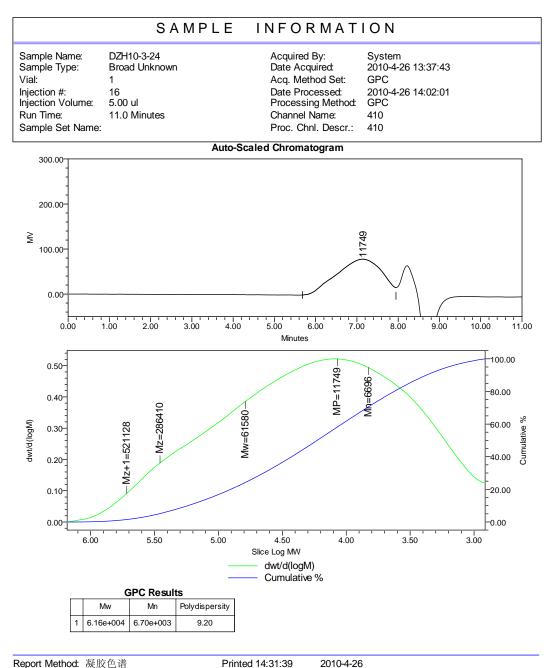
凝胶色谱

检测单位: 中国科学院成都分院分析测试中心

分析人员:龙远德 (028-85223712)

SEC

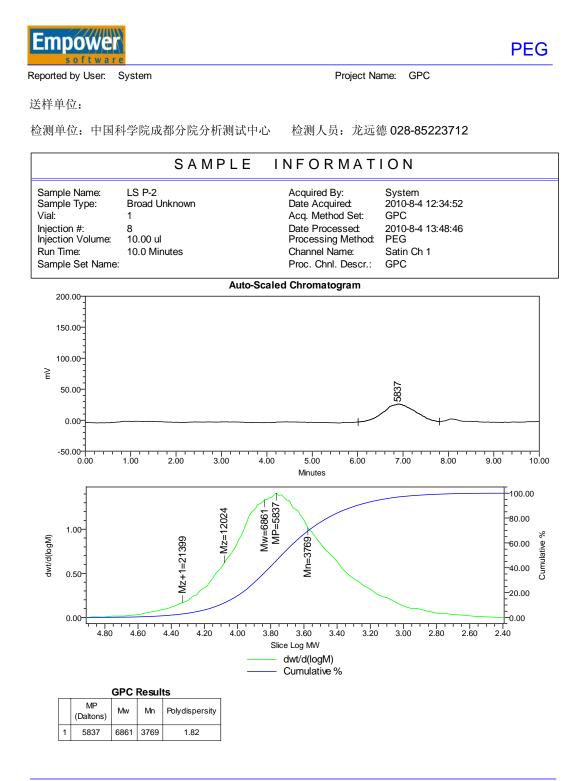
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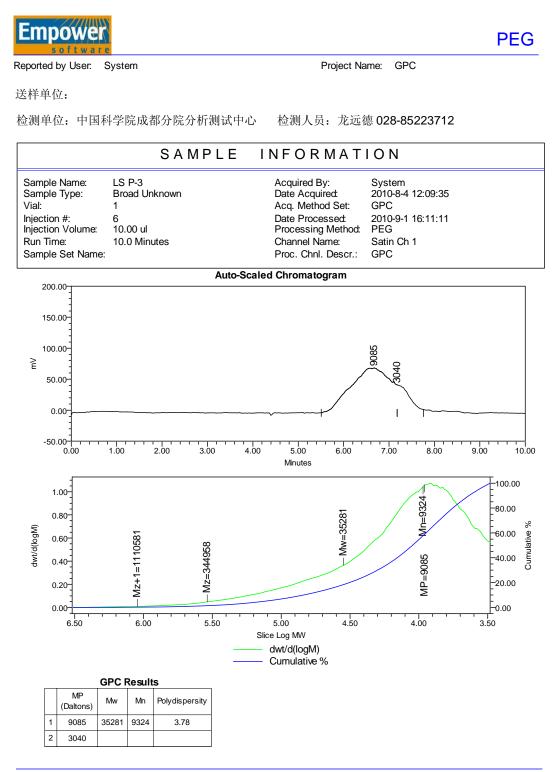
#### GPC of DA-PEI(3a)



Report Method: PEG

Printed 16:08:04 2010-9-1

#### GPC of DO-PEI(3c)



Report Method: PEG

Printed 16:11:29 2010-9-1