

# ParSEC

# Advanced GPC/SEC Software for Macromolecular Characterization

**ParSEC** is a powerful new suite of software for multidetector, macromolecular characterization and represents the most significant development in GPC/ SEC analysis. **ParSEC** is compatible with ALL GPC/SEC systems and detectors. Many attractive and practical features have been written into the new software for the benefit of chromatographers, including "function specific" views, ensuring the uncluttered display of information relevant to the task at hand, customizable display and annotation options for all graph types, plus a database approach for practical storage and archiving of data and results associated with any application.



Two versions are available:

## ParSEC – Enhanced

#### Advanced Macromolecular Characterization

**ParSEC – Enhanced** provides a complete software solution for polymer characterization with multidetector GPC. It is designed to acquire and analyze data from GPC systems fitted with virtually any combination of refractive index, light scattering, and viscosity detectors. All operating conditions, raw data files, analysis methods, related calibrations, results, and sample information are stored in a database for easy archiving and retrieval.

- » Intuitive, comprehensive, & flexible
- » Calibration options available: Standard & universal
- » Absolute molecular weight determination
- » Multi-detector capabilities: RI, UV, MALS, DLS, and viscometery
- » Protein aggregation and protein-protein interactions using DLS
- "Smart Tile" feature arranges all open windows to be viewed conveniently



#### ParSEC-Standard

#### **Conventional Macromolecular Characterization Using Polymer Standards**

Alt         Alt           type         1         Verbindel Ler Lies         Immunity         Alt           type         1         Verbindel Ler Lies         Immunity         Immunity           type         1         Verbindel Ler Lies         Immunity         Immunity         Immunity           type         1         Immunity         Immunity         Immunity         Immunity         Immunity         Immunity           type         1         Immunity	a textmanners Cal	n Fackt' Growstamynin Sallwen	
Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Data -		والثلم
Provem         Image: Provide Transmitter         Provem Transmitter         ProvemTransmitter         ProvemTransmitter         ProvemTransmitter         ProvemTransmitter         ProvemTransmitter         ProvemTransmitter         ProvemTransmitter	Page 2	Var benef Der Lane Lenge times - Romen	
Provem         Image: Provide Transmitter         Provem Transmitter         ProvemTransmitter         ProvemTransmitter         ProvemTransmitter         ProvemTransmitter         ProvemTransmitter         ProvemTransmitter         ProvemTransmitter	Geold 20	Date Tests Upget Test This Lensin Come	
Typeser: ID         AP 05, 2001 2011         Decide Diff.         Characterization         Characterization           Table         AP 05, 2001 2012         Decide Diff.         Characterization         Characterization           Max         AP 05, 2001 2012         Decide Diff.         Characterization         Characterization           Max         AP 05, 2001 2012         Decide Diff.         Characterization         Characterization           Max         AP 05, 2001 2012         Decide Diff.         Characterization         Characterization         Characterization           Max         AP 2, 2001 2012         Decide Diff.         Characterization         Characterization         Characterization           Max         AP 2, 2001 2012         Decide Diff.         Characterization         Characterization         Characterization           Max         AP 2, 2001 2012         Decide Diff.         Characterization         Characterization <thcharacterizati< td=""><td>Delwarmen Tall</td><td>ter (b. 2019) (7.2) (Bartherin) R. Anders on (b. 1475)</td><td></td></thcharacterizati<>	Delwarmen Tall	ter (b. 2019) (7.2) (Bartherin) R. Anders on (b. 1475)	
Pri/S     441,200 (Hz)     Non-on-11/42(4) state print(1) for the main of the first of the main of the			
M42 4 2010 1210 1200 1210 1200 120 1200 120			
New 6         4-2         2000 0010         Develope         C. In the case 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	141		
Max B         AP 2, 2013 (200)         The Apple (1) (200)           758,47.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,47.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,47.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,47.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,17.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,17.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,17.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,17.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,17.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,17.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,17.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,17.5         AP 2, 2013 (200)         Research (1) (200)         Research (1) (200)           758,17.5         AP 2, 2013 (200)         Research (1) (200)         Re	14812-68	Apr 20, 2008 DN 112 75 Handweitig KE, Prichar und D Austi	
17.94, 7.9     49.200     10.200     10.200     10.200     10.200       7.94, 7.9     49.200     10.200     Barrell 0.400     10.200       7.94, 7.9     49.200     Barrell 0.400     10.200     10.200       7.94, 7.9     49.200     Barrell 0.400     10.200     10.200       7.95, 7.9     49.200     Barrell 0.400     10.200     10.200       7.95, 7.9     49.200     Barrell 0.400     10.200     10.200       7.900     10.200     Barrell 0.400     Barrell 0.400     10.200       7.97     49.200     10.200     Barrell 0.400     10.200     10.200       7.97     49.200     10.200     Barrell 0.400     10.200     10.200       7.97     49.200     10.200     Barrell 0.400     10.200     10	79003 455		
12194, 7     4     2010, 131     Research     C. Polerence     1210, 141, 141, 141, 141, 141, 141, 141, 1	Inexa 44		
1/2.46, 6.3     AV 2, 200 (200)     Developed     (1) The event 1/2.46       Other Park     40 2, 200 (200)     Developed     (1) The event 1/2.46       Other Park     40 2, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 2, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 2, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 2, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 2, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 2, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 2, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 2, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 2, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 2, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 1, 200 (200)     Developed     (1) The event 1/2.46       Markowski     40 1, 200 (200)     Developed     (1) The event 1/2.46       Markowski     1/1 The event 1/2.46     Developed     (1) The event 1/2.46       Markowski     1/1 The event 1/2.46     Developed     (1) The event 1/2.46       Markowski     1/1 The	70346.755		
mark (10, FA3) (			
Compare Disk Compare Disk High Ry 20 High Ry 20 Hi			
The Lig Fr 37 V 22 2010 Cost Stands Coheman Lists Coheman Cohe			
The L2, MAX 90 AF 2, 200 VLP (Second) II. Under wer USH 91 AF 200 VLP (Second			
The LS, MA JAN AND AND THE AND A CONTRACT OF			
Mailla (H3) 4/2 (2013) (2013) (2014)			
Here: (2), (13) 47, (2), (2), (2), (2), (2), (2), (2), (2)			
ST John Green Gree			
DAT         Art 2, 2018/551; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode         Art 2, 2018/55; Description Fam. 52, functions large tractor           Second Mode <td></td> <td></td> <td></td>			
	Carlo Lifesama data		
	Revenue BLADAU Apr 11	an Dai	a.033
	Menominent Linded in 18	1 10 2 5 5 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Then Expan		
	424		
		٨	
	121-	٨	
	121-	٨	
	120- 120-	٨	
	120- 120-	A	
	ia) bi	A	
	ia) bi	A	
104 107) 2 2 4 1 4 Ω 19 Δ 22 19 30 55 ([Define the Dimensione (107)] 104 104 104 104 104 104 104 104	112599	$\bigwedge$	
1 100 p 2 s 1 1 1 ⊡ 10 0 2 10 10 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10	10000 C 1000	$\bigwedge$	
* 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	$\bigwedge$	
dd Bater Talen ( 1997 -	B B B B B B B B B B B B B B B B B B B		
dd Bater Talen ( 1997 -	Bas avan		
(d) Dearban Till Tueny have T Minu - Yahap 112M			
(g) Constant Sills. Extended # 2019; Texar Pl	10000000000000000000000000000000000000		<u> </u>
Invent	10000000000000000000000000000000000000		× * *
	10000000000000000000000000000000000000	(Main Vitere (nd)	x x x
		(Main Vitere (nd)	* * * *

**ParSEC–Standard**providesacompletesoftware solution for polymer characterization when using a GPC system fitted with concentration detectors and using polymer standards for calibration. All operating conditions, raw data files, analysis methods, related calibrations, and sample information are stored in a database for easy retrieval.

Calculates molecular weight averages:  $\rm M_{w_{,}}~M_{_{N_{,}}}$   $\rm M_{_{Z}}$  and PDI (  $\rm M_{w}/M_{_{N}})$ 

### About Brookhaven Instruments

Our talented team of scientists and engineers is dedicated to delivering the most accurate, reliable, and easy-to-use particle characterization instruments on the market. Our modular instrument design allows us to fully customize every aspect of our products, ensuring that our customers receive precisely what they need to meet their research goals. We are continuously improving our products based on feedback from customers, building on our legacy of innovation in particle science.

We strive to act as partners with our customers to ensure they get the most benefit and maximum value from their Brookhaven equipment. We offer extensive post-sale support to educate and empower customers. Whether you have questions about a specific function or are trying to set up a new experiment, our experts will be there to help you every step of the way.







654 Petrolia Road, Toronto, ON M3J 2W3 Tel: (416) 736-6166 Toll-Free: (800) 387 3570 Fax: (416) 736-9346