

## GPC Standards

Pharmacosmos GPC Standards provide a unique collection of 10 GPC standards (Gel Permeation Chromatography standards) for molecular weight determination. The GPC standards cover a molecular weight range from 1,000 Daltons to 670,000 Daltons.

The GPC standards are delivered with a complete set of specifications including weight average molecular weight  $M_w$ , number average molecular weight  $M_n$ , and mean peak molecular weight  $M_p$ . Differential and integral molecular weight distributions are provided in both graphical and tabular form (please see below).

The GPC Standard data are unique for a given Batch No.

**When ordering GPC standards from Pharmacosmos, please note that the Batch No. may be different from the examples given in this file.**

For additional information about Dextran GPC from Pharmacosmos, please visit our Dextran website:

<http://www.dextran.net>

If you have any questions or comments, please contact us:

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## GPC Standard Dextran 150000

BATCH NO.:  
090521

### GEL PERMEATION CHROMATOGRAPHY

$\bar{M}_p$	123600
$\bar{M}_w$	147600
$\bar{M}_n$	100300
$\sqrt{\bar{M}_w \times \bar{M}_n}$	121700
$\bar{M}_w/\bar{M}_n$	1.47

### CONTROL MEASUREMENTS

$\bar{M}_p$ , (Visc.)	39.4
$\bar{M}_w$ , (LALLS)	143000
$\bar{M}_n$ , (EGT)	98559
$\sqrt{\bar{M}_w \times \bar{M}_n}$ , (LALLS, EGT)	118720
$\bar{M}_w/\bar{M}_n$ , (LALLS/EGT)	1.45

MOLECULAR WEIGHT		DIFFERENTIAL DISTRIBUTION	INTEGRAL DISTRIBUTION
M	log(M)	-	%
10800	4.033	0.004	0.0
12400	4.093	0.006	0.0
14300	4.155	0.009	0.1
16500	4.217	0.015	0.2
19100	4.281	0.025	0.3
22000	4.342	0.038	0.5
25400	4.405	0.062	0.8
29300	4.467	0.103	1.3
33800	4.529	0.168	2.1
38900	4.590	0.264	3.4
44900	4.652	0.393	5.4
51800	4.714	0.552	8.4
59800	4.777	0.735	12.4
69000	4.839	0.931	17.5
79600	4.901	1.129	23.9
91800	4.963	1.316	31.5
106000	5.025	1.474	40.2
122000	5.086	1.558	49.7
141000	5.149	1.524	59.3
163000	5.212	1.385	68.4
188000	5.274	1.179	76.3
217000	5.336	0.951	82.9
250000	5.398	0.732	88.2
288000	5.459	0.536	92.1
332000	5.521	0.372	94.9
384000	5.584	0.250	96.8
442000	5.645	0.162	98.1
510000	5.708	0.100	98.9
589000	5.770	0.059	99.3
679000	5.832	0.035	99.6
784000	5.894	0.020	99.8
904000	5.956	0.014	99.9
1040000	6.017	0.007	100.0
1200000	6.079	0.002	100.0
1390000	6.143	0.001	100.0

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# GPC Standard 150

