

## 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 270000

BATCH NO.:  
090731

### GEL PERMEATION CHROMATOGRAPHY

$\bar{M}_p$	196300
$\bar{M}_w$	273000
$\bar{M}_n$	164200
$\sqrt{\bar{M}_w \times \bar{M}_n}$	211700
$\bar{M}_w/\bar{M}_n$	1.66

### CONTROL MEASUREMENTS

$\bar{M}_p$ , (Visc.)	49.4
$\bar{M}_w$ , (LALLS)	262000
$\bar{M}_n$ , (EGT)	167500
$\sqrt{\bar{M}_w \times \bar{M}_n}$ , (LALLS, EGT)	209490
$\bar{M}_w/\bar{M}_n$ , (LALLS/EGT)	1.56

MOLECULAR WEIGHT		DIFFERENTIAL DISTRIBUTION	INTEGRAL DISTRIBUTION
M	log(M)	-	%
13800	4.140	0.005	0.0
16100	4.207	0.008	0.0
18900	4.276	0.015	0.1
22100	4.344	0.017	0.2
25900	4.413	0.027	0.4
30300	4.481	0.038	0.6
35500	4.550	0.055	0.9
41600	4.619	0.086	1.4
48700	4.688	0.123	2.1
57000	4.756	0.175	3.1
66700	4.824	0.250	4.6
78100	4.893	0.363	6.6
91500	4.961	0.536	9.7
107000	5.029	0.778	14.1
125000	5.097	1.074	20.5
147000	5.167	1.340	28.8
172000	5.236	1.496	38.6
201000	5.303	1.528	49.0
236000	5.373	1.442	59.2
276000	5.441	1.266	68.5
323000	5.509	1.046	76.4
378000	5.577	0.818	82.8
443000	5.646	0.614	87.7
519000	5.715	0.448	91.3
607000	5.783	0.318	93.9
711000	5.852	0.222	95.8
833000	5.921	0.153	97.0
975000	5.989	0.105	97.9
1140000	6.057	0.072	98.5
1340000	6.127	0.050	98.9
1560000	6.193	0.036	99.2
1830000	6.262	0.027	99.4
2150000	6.332	0.019	99.6
2510000	6.400	0.014	99.7
2940000	6.468	0.012	99.8
3440000	6.537	0.009	99.9
4030000	6.605	0.006	99.9
4720000	6.674	0.004	100.0
5530000	6.743	0.003	100.0
6470000	6.811	0.001	100.0

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# GPC Standard 270

