

## 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 670000

BATCH NO.:  
090771

### GEL PERMEATION CHROMATOGRAPHY

$\bar{M}_p$	401300
$\bar{M}_w$	667800
$\bar{M}_n$	332800
$\sqrt{\bar{M}_w \times \bar{M}_n}$	471400
$\bar{M}_w/\bar{M}_n$	2.01

### CONTROL MEASUREMENTS

$\bar{M}_p$ , (Visc.)	70.8
$\bar{M}_w$ , (LALLS)	676000
$\bar{M}_n$ , (EGT)	349303
$\sqrt{\bar{M}_w \times \bar{M}_n}$ , (LALLS, EGT)	485930
$\bar{M}_w/\bar{M}_n$ , (LALLS/EGT)	1.94

MOLECULAR WEIGHT		DIFFERENTIAL DISTRIBUTION	INTEGRAL DISTRIBUTION
M	log(M)	-	%
20400	4.310	0.003	0.0
24200	4.384	0.006	0.0
28600	4.456	0.011	0.1
33800	4.529	0.017	0.2
40000	4.602	0.020	0.3
47300	4.675	0.029	0.5
56000	4.748	0.039	0.8
66300	4.822	0.050	1.1
78400	4.894	0.074	1.5
92800	4.968	0.107	2.2
110000	5.041	0.171	3.2
130000	5.114	0.269	4.8
154000	5.188	0.411	7.2
182000	5.260	0.585	10.9
215000	5.332	0.776	15.8
255000	5.407	0.969	22.2
301000	5.479	1.123	29.9
357000	5.553	1.208	38.4
422000	5.625	1.221	47.4
500000	5.699	1.169	56.1
591000	5.772	1.067	64.3
699000	5.844	0.933	71.6
828000	5.918	0.784	77.9
979000	5.991	0.636	83.1
1160000	6.064	0.500	87.2
1370000	6.137	0.386	90.5
1620000	6.210	0.296	93.0
1920000	6.283	0.224	94.8
2270000	6.356	0.172	96.3
2690000	6.430	0.131	97.4
3180000	6.502	0.098	98.2
3760000	6.575	0.072	98.8
4450000	6.648	0.050	99.3
5270000	6.722	0.033	99.6
6240000	6.795	0.020	99.8
7380000	6.868	0.011	99.9
8730000	6.941	0.006	99.9
10300000	7.013	0.003	100.0
12200000	7.086	0.001	100.0

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# GPC Standard 670

