

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 5000

BATCH NO.:
096001

GEL PERMEATION CHROMATOGRAPHY

\bar{M}_p	4440
\bar{M}_w	5220
\bar{M}_n	3260
$\sqrt{\bar{M}_w \times \bar{M}_n}$	4130
\bar{M}_w/\bar{M}_n	1.60

CONTROL MEASUREMENTS

\bar{M}_p , (Visc.)	7.8
\bar{M}_w , (LALLS)	5700
\bar{M}_n , (EGT)	3326
$\sqrt{\bar{M}_w \times \bar{M}_n}$, (LALLS, EGT)	4354
\bar{M}_w/\bar{M}_n , (LALLS/EGT)	1.71

MOLECULAR WEIGHT		DIFFERENTIAL DISTRIBUTION	INTEGRAL DISTRIBUTION
M	log(M)	-	%
224	2.350	0.002	0.0
255	2.407	0.003	0.0
289	2.461	0.006	0.0
329	2.517	0.009	0.1
374	2.573	0.012	0.1
424	2.627	0.015	0.2
482	2.683	0.019	0.3
547	2.738	0.025	0.4
622	2.794	0.034	0.6
706	2.849	0.051	0.8
802	2.904	0.078	1.2
911	2.960	0.116	1.7
1040	3.017	0.167	2.5
1180	3.072	0.236	3.6
1340	3.127	0.323	5.1
1520	3.182	0.426	7.2
1720	3.236	0.546	9.9
1960	3.292	0.681	13.3
2220	3.346	0.828	17.5
2530	3.403	0.980	22.5
2870	3.458	1.128	28.3
3260	3.513	1.252	34.9
3700	3.568	1.338	42.1
4200	3.623	1.375	49.6
4780	3.679	1.359	57.2
5430	3.735	1.291	64.5
6160	3.790	1.181	71.4
7000	3.845	1.041	77.5
7950	3.900	0.886	82.9
9030	3.956	0.728	87.3
10300	4.013	0.578	90.9
11700	4.068	0.443	93.8
13200	4.121	0.326	95.9
15000	4.176	0.226	97.4
17100	4.233	0.147	98.4
19400	4.288	0.094	99.1
22000	4.342	0.057	99.5
25000	4.398	0.032	99.7
28400	4.453	0.019	99.9
32300	4.509	0.010	100.0
36700	4.565	0.004	100.0

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GPC Standard 5

