

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 12000

BATCH NO.:
092201

GEL PERMEATION CHROMATOGRAPHY

\bar{M}_p	9890
\bar{M}_w	11600
\bar{M}_n	8110
$\sqrt{\bar{M}_w \times \bar{M}_n}$	9700
\bar{M}_w/\bar{M}_n	1.43

CONTROL MEASUREMENTS

\bar{M}_p , (Visc.)	11.2
\bar{M}_w , (LALLS)	11700
\bar{M}_n , (EGT)	8000
$\sqrt{\bar{M}_w \times \bar{M}_n}$, (LALLS, EGT)	9675
\bar{M}_w/\bar{M}_n , (LALLS/EGT)	1.46

MOLECULAR WEIGHT		DIFFERENTIAL DISTRIBUTION	INTEGRAL DISTRIBUTION
M	log(M)	-	%
1010	3.004	0.001	0.0
1130	3.053	0.003	0.0
1260	3.100	0.006	0.0
1400	3.146	0.009	0.1
1570	3.196	0.015	0.1
1750	3.243	0.024	0.2
1950	3.290	0.040	0.4
2180	3.338	0.064	0.6
2430	3.386	0.102	1.0
2710	3.433	0.155	1.6
3020	3.480	0.228	2.5
3370	3.528	0.324	3.8
3760	3.575	0.445	5.6
4200	3.623	0.588	8.1
4680	3.670	0.746	11.2
5220	3.718	0.913	15.2
5830	3.766	1.079	19.9
6500	3.813	1.231	25.4
7250	3.860	1.357	31.6
8090	3.908	1.448	38.3
9030	3.956	1.502	45.3
10100	4.004	1.512	52.5
11200	4.049	1.478	59.6
12500	4.097	1.407	66.5
14000	4.146	1.292	72.9
15600	4.193	1.139	78.7
17400	4.241	0.965	83.7
19400	4.288	0.784	87.8
21700	4.336	0.620	91.2
24200	4.384	0.474	93.8
27000	4.431	0.350	95.7
30100	4.479	0.251	97.1
33600	4.526	0.173	98.1
37500	4.574	0.113	98.8
41800	4.621	0.072	99.2
46600	4.668	0.046	99.5
52000	4.716	0.029	99.7
58100	4.764	0.018	99.8
64800	4.812	0.012	99.9
72300	4.859	0.010	99.9
80600	4.906	0.007	100.0
90000	4.954	0.005	100.0

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GPC Standard 12

