

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 50000

BATCH NO.:
090601

GEL PERMEATION CHROMATOGRAPHY

\bar{M}_p	43500
\bar{M}_w	48600
\bar{M}_n	35600
$\sqrt{\bar{M}_w \times \bar{M}_n}$	41600
\bar{M}_w/\bar{M}_n	1.36

CONTROL MEASUREMENTS

\bar{M}_p , (Visc.)	23.0
\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)	-	%
2850	3.455	0.003	0.0
3150	3.498	0.004	0.0
3470	3.540	0.004	0.0
3820	3.582	0.005	0.0
4210	3.624	0.006	0.1
4650	3.667	0.008	0.1
5120	3.709	0.011	0.1
5650	3.752	0.014	0.2
6220	3.794	0.017	0.3
6860	3.836	0.022	0.3
7570	3.879	0.028	0.4
8340	3.921	0.037	0.6
9190	3.963	0.049	0.8
10100	4.004	0.069	1.0
11200	4.049	0.096	1.4
12300	4.090	0.133	1.8
13600	4.134	0.184	2.5
15000	4.176	0.254	3.4
16500	4.217	0.345	4.7
18200	4.260	0.459	6.4
20100	4.303	0.602	8.6
22100	4.344	0.771	11.5
24400	4.387	0.959	15.2
26900	4.430	1.156	19.7
29600	4.471	1.353	25.0
32700	4.515	1.533	31.1
36000	4.556	1.673	37.9
39700	4.599	1.757	45.2
43800	4.641	1.772	52.7
48200	4.683	1.720	60.1
53200	4.726	1.603	67.1
58600	4.768	1.437	73.6
64600	4.810	1.243	79.3
71300	4.853	1.039	84.1
78600	4.895	0.844	88.1
86600	4.938	0.666	91.3
95500	4.980	0.510	93.7
105000	5.021	0.382	95.6
116000	5.064	0.278	97.0
128000	5.107	0.196	98.0
141000	5.149	0.133	98.7
155000	5.190	0.088	99.2
171000	5.233	0.057	99.5
189000	5.276	0.036	99.7
208000	5.318	0.023	99.8
230000	5.362	0.016	99.9
253000	5.403	0.010	99.9
279000	5.446	0.007	100.0
308000	5.489	0.003	100.0
339000	5.530	0.001	100.0

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GPC Standard 50

