

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 80000

BATCH NO.:
090901

GEL PERMEATION CHROMATOGRAPHY

\bar{M}_p	66700
\bar{M}_w	80900
\bar{M}_n	55500
$\sqrt{\bar{M}_w \times \bar{M}_n}$	67000
\bar{M}_w/\bar{M}_n	1.46

CONTROL MEASUREMENTS

\bar{M}_p , (Visc.)	31.5
\bar{M}_w , (LALLS)	79800
\bar{M}_n , (EGT)	55632
$\sqrt{\bar{M}_w \times \bar{M}_n}$, (LALLS, EGT)	66630
\bar{M}_w/\bar{M}_n , (LALLS/EGT)	1.43

MOLECULAR WEIGHT		DIFFERENTIAL DISTRIBUTION	INTEGRAL DISTRIBUTION
M	log(M)	-	%
4470	3.650	0.001	0.0
5160	3.713	0.003	0.0
5960	3.775	0.007	0.0
6880	3.838	0.008	0.1
7940	3.900	0.012	0.2
9170	3.962	0.018	0.2
10600	4.025	0.027	0.4
12200	4.086	0.043	0.6
14100	4.149	0.065	0.9
16300	4.212	0.101	1.4
18800	4.274	0.158	2.2
21700	4.336	0.244	3.5
25100	4.400	0.366	5.4
28900	4.461	0.534	8.1
33400	4.524	0.735	12.1
38600	4.587	0.963	17.4
44500	4.648	1.187	24.1
51400	4.711	1.368	32.1
59300	4.773	1.479	41.0
68500	4.836	1.514	50.4
79100	4.898	1.468	59.7
91300	4.960	1.362	68.6
105000	5.021	1.202	76.6
122000	5.086	0.996	83.5
141000	5.149	0.763	89.0
162000	5.210	0.538	93.0
187000	5.272	0.355	95.8
216000	5.334	0.219	97.5
250000	5.398	0.129	98.6
288000	5.459	0.076	99.2
333000	5.522	0.043	99.6
384000	5.584	0.023	99.8
443000	5.646	0.012	99.9
512000	5.709	0.006	100.0
591000	5.772	0.003	100.0

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GPC Standard 80

