

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 410000

BATCH NO.:
090151

GEL PERMEATION CHROMATOGRAPHY

\bar{M}_p	276500
\bar{M}_w	409800
\bar{M}_n	236300
$\sqrt{\bar{M}_w \times \bar{M}_n}$	311200
\bar{M}_w/\bar{M}_n	1.73

CONTROL MEASUREMENTS

\bar{M}_p , (Visc.)	55.4
\bar{M}_w , (LALLS)	403000
\bar{M}_n , (EGT)	239903
$\sqrt{\bar{M}_w \times \bar{M}_n}$, (LALLS, EGT)	310935
\bar{M}_w/\bar{M}_n , (LALLS/EGT)	1.68

MOLECULAR WEIGHT		DIFFERENTIAL DISTRIBUTION	INTEGRAL DISTRIBUTION
M	log(M)	-	%
17900	4.253	0.003	0.0
20900	4.320	0.008	0.0
24300	4.386	0.011	0.1
28300	4.452	0.017	0.2
33000	4.519	0.023	0.3
38500	4.585	0.032	0.5
44900	4.652	0.045	0.8
52300	4.719	0.062	1.1
61000	4.785	0.085	1.6
71100	4.852	0.122	2.3
82900	4.919	0.173	3.3
96600	4.985	0.263	4.7
113000	5.053	0.407	6.9
131000	5.117	0.606	10.2
153000	5.185	0.836	15.0
178000	5.250	1.054	21.3
208000	5.318	1.232	29.0
242000	5.384	1.342	37.6
282000	5.450	1.366	46.6
329000	5.517	1.299	55.5
384000	5.584	1.173	63.8
447000	5.650	1.017	71.1
521000	5.717	0.858	77.3
608000	5.784	0.711	82.5
708000	5.850	0.579	86.8
826000	5.917	0.461	90.3
963000	5.984	0.362	93.0
1120000	6.049	0.278	95.1
1310000	6.117	0.207	96.8
1520000	6.182	0.148	97.9
1780000	6.250	0.100	98.7
2070000	6.316	0.063	99.3
2410000	6.382	0.038	99.6
2810000	6.449	0.022	99.8
3280000	6.516	0.012	99.9
3820000	6.582	0.005	100.0
4460000	6.649	0.001	100.0

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GPC Standard 410

