

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:

Pharmacosmos A/S

Roervangsvej 30
DK-4300 Holbaek
Denmark

Tel: +45 5948 5959

Fax: +45 5948 5960

E-mail: dextran@pharmacosmos.com

GPC Standard Dextran 1000

BATCH NO.:
092001

GEL PERMEATION CHROMATOGRAPHY

\bar{M}_p	1080
\bar{M}_w	1270
\bar{M}_n	1010
$\sqrt{\bar{M}_w \times \bar{M}_n}$	1130
\bar{M}_w/\bar{M}_n	1.26

CONTROL MEASUREMENTS

\bar{M}_p , (Visc.)	4.4
\bar{M}_w , (LALLS)	–
\bar{M}_n , (EGT)	1034
$\sqrt{\bar{M}_w \times \bar{M}_n}$, (LALLS, EGT)	–
\bar{M}_w/\bar{M}_n , (LALLS/EGT)	–

MOLECULAR WEIGHT		DIFFERENTIAL DISTRIBUTION	INTEGRAL DISTRIBUTION
M	log(M)	–	%
215	2.332	0.004	0.0
232	2.365	0.005	0.0
251	2.400	0.009	0.0
270	2.431	0.016	0.1
292	2.465	0.026	0.1
315	2.498	0.040	0.3
340	2.531	0.064	0.4
367	2.565	0.100	0.7
396	2.598	0.151	1.1
427	2.630	0.224	1.7
461	2.664	0.320	2.6
497	2.696	0.443	3.9
537	2.730	0.590	5.6
579	2.763	0.759	7.8
625	2.796	0.944	10.6
674	2.829	1.140	14.1
728	2.862	1.338	18.2
785	2.895	1.524	22.9
848	2.928	1.683	28.2
915	2.961	1.806	34.0
987	2.994	1.887	40.1
1070	3.029	1.918	46.4
1150	3.061	1.898	52.7
1240	3.093	1.832	58.9
1340	3.127	1.725	64.8
1440	3.158	1.587	70.3
1560	3.193	1.432	75.3
1680	3.225	1.268	79.7
1810	3.258	1.103	83.6
1960	3.292	0.942	87.0
2110	3.324	0.789	89.9
2280	3.358	0.648	92.3
2460	3.391	0.522	94.2
2660	3.425	0.411	95.7
2870	3.458	0.316	96.9
3090	3.490	0.238	97.8
3340	3.524	0.175	98.5
3600	3.556	0.124	99.0
3890	3.590	0.087	99.4
4190	3.622	0.059	99.6
4530	3.656	0.039	99.8
4880	3.688	0.025	99.9
5270	3.722	0.016	99.9
5690	3.755	0.009	100.0
6140	3.788	0.006	100.0

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Roervangsvej 30
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Tel: +45 5948 5959
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E-mail: dextran@pharmacosmos.com

GPC Standard 1

