

Supplemental Table 2. Chromatographic performance of PGC materials in capillary column format**PGC-A matrix**

Nucleoside	Retention time (min)			Peak width (min)		f (min)	Symmetry factor (S)	Theoretical plates (N)
	Apex	Start	Stop	W _{0.05h}	W _{0.5h}			
Adenosine	46.13	45.57	48.02	1.62	0.43	0.41	1.976	63759
Cytidine	20.92	20.56	23.10	0.96	0.31	0.30	1.600	25230
Guanosine	46.13	17.70	74.63	2.20	0.67	0.59	1.864	26262
Pseudouridine	18.98	18.36	20.93	0.55	0.28	0.27	1.019	25456
Uridine	22.98	20.93	25.14	0.86	0.34	0.34	1.265	25308
Inosine	32.56	31.86	35.70	0.98	0.52	0.51	0.961	21721
N ⁴ -acetylcytidine	52.66	51.26	58.01	1.83	1.17	0.73	1.253	11223
1-methyladenosine	16.70	16.23	25.05	3.79	1.48	0.27	7.019	705
2'-O-methyladenosine	47.91	47.35	52.64	1.78	0.48	0.28	3.179	55192

PGC-B matrix

Nucleoside	Retention time (min)			Peak width (min)		f (min)	Symmetry factor (S)	Theoretical plates (N)
	Apex	Start	Stop	W _{0.05h}	W _{0.5h}			
Adenosine	43.01	42.42	48.12	1.61	0.40	0.43	1.872	64051
Cytidine	19.94	19.52	21.48	0.60	0.29	0.32	0.937	26192
Guanosine	38.20	18.08	65.74	1.47	0.48	0.40	1.837	35088
Pseudouridine	18.73	18.27	19.76	0.52	0.25	0.32	0.812	31096
Uridine	23.15	22.78	25.70	0.69	0.33	0.27	1.278	27264
Inosine	31.24	30.65	34.88	0.95	0.41	0.46	1.033	32164
N ⁴ -acetylcytidine	49.26	48.60	52.89	1.12	0.60	0.45	1.244	37342
1-methyladenosine	13.67	13.17	21.86	1.15	0.28	0.12	4.792	13205
2'-O-methyladenosine	44.91	40.44	57.36	1.51	0.40	0.43	1.756	69835

C18 matrix

Nucleoside	Retention time (min)			Peak width (min)		f (min)	Symmetry factor (S)	Theoretical plates (N)
	Apex	Start	Stop	W _{0.05h}	W _{0.5h}			
Adenosine	34.18	33.75	35.15	0.68	0.30	0.43	1.133	71914
Cytidine	8.49	0.00	25.13	14.56	10.62	8.49	0.857	4
Guanosine	27.39	26.77	29.06	0.83	0.42	0.35	1.186	23561
Pseudouridine*	17.96	13.82	18.95	4.16	2.20	3.20	0.650	369
Uridine*	20.85	18.95	24.37	2.64	1.74	1.87	0.706	795
Inosine	26.48	25.92	28.01	0.91	0.54	0.39	1.167	13322
N ⁴ -acetylcytidine	32.44	32.00	33.18	0.58	0.23	0.27	1.074	110209
1-methyladenosine	21.52	20.07	24.73	2.80	1.18	1.26	1.111	1843
2'-O-methyladenosine	39.36	38.84	40.46	0.67	0.28	0.29	1.155	109472

*Pseudouridine and uridine are not baseline separated on the C18 matrix.