

Supplementary Material

Properties of Fourier Syntheses and New Syntheses

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Additional information for protein and nucleic acid test structures

Table S1. For each protein test structure (solved by VLD or by Patterson techniques) we quote: the Protein Data Bank code (PDB), the space group (SG), the diffraction data resolution in Å (RES) and the number of non-H atoms in the asymmetric N_{asym} . The method used to solve the structure (VLD or by Patterson techniques) is reported in the last column. The reference numbers are shown in square brackets (see the main text).

PDB	SG	RES	N_{asym}	Method
1aa5 [32]	P 4 ₃ 2 ₁ 2	0.89	200	VLD
1alz [33]	P 2 ₁ 2 ₁ 2 ₁	0.86	313	"
1byz [34]	P 1	0.90	445	"
1c75 [35]	P 2 ₁ 2 ₁ 2 ₁	0.97	538	"
1ctj [36]	R 3	1.10	697	"
1hhy [37]	P 6 ₃ 2 2	0.89	208	"
1ick [38]	P 2 ₁ 2 ₁ 2 ₁	0.95	250	"
1irn [39]	R 3	1.20	420	"
1p9i [40]	C 2 2 2 ₁	1.17	234	"
1sho [41]	P 4 ₃ 2 ₁ 2	1.09	207	"
1ea7 [42]	P 2 ₁	0.93	2344	Patterson
1het [43]	P 1	1.15	6258	"
1heu [43]	P 1	1.15	6319	"
1n8k [44]	P 1	1.13	5717	"
1us0 [45]	P 2 ₁	0.66	3066	"
1w8f [46]	P 1	1.05	3801	"
2bw4 [47]	P 2 ₁ 3	0.90	2914	"

Table S2. For each nucleic acid test structure we quote: the Protein Data Bank code (PDB), the space group (SG), the diffraction data resolution in Å (RES) and the number of non-H atoms in the asymmetric N_{asym} . All the structures were solved by using Molecular Replacement techniques. The reference numbers are shown in square brackets (see the main text).

PDB	SG	RES	N_{asym}
3ce5 [49]	I 4	2.50	549
3eil [50]	P 3 ₂	2.60	1597
3n4o [51]	P 2 ₁ 2 ₁ 2 ₁	2.90	495
3tok [52]	C 2	1.74	448
4gsg [53]	C 2	2.00	449
4ms5 [54]	P 4 ₃ 2 ₁ 2	2.23	227
4xqz [55]	P 2 ₁	2.15	1084
5dwx [56]	P 4 2 ₁ 2	2.71	728
5i4s [57]	R 3	2.46	496
5ihd [55]	P 2 ₁	1.57	542
5ju4 [58]	P 2 ₁ 2 ₁ 2 ₁	2.00	536
5lj4 [59]	R 3	2.17	448
5mvt [60]	P 3 ₁ 2 1	1.89	535
5nt5 [61]	P 2 ₁ 2 ₁ 2 ₁	2.30	536
5t4w [62]	P 2 ₁ 2 ₁ 2 ₁	2.30	534
1iha [63]	C 2	1.60	400
1z7f [64]	P 3 ₁ 2 1	2.10	1046
2a0p [65]	R 3 2	1.95	362
2fd0 [66]	C 2 2 2 ₁	1.80	1033
2pn4 [67]	P 2 ₁ 2 ₁ 2 ₁	2.32	1958
3d2v [68]	P 2 ₁ 2 ₁ 2	2.00	3466
3fs0 [69]	P 3 ₁	2.30	477
4enc [70]	P 2 ₁ 2 ₁ 2	2.27	1168
5kvj [71]	R 3	2.26	714
5l4o [72]	P 3 ₂ 1 2	2.80	1721
5nz6 [73]	P 3 ₂ 1 2	2.94	970
5tgp [74]	P 6 ₁	1.60	257
5uz6 [75]	C 2	2.10	2158
6az4 [75]	P 4 ₁ 2 ₁ 2	2.98	918