Supplemental data for the paper:

**Zinc(II) complexes derived from imidazo[1,2-a]pyridin-2-ylacetic acid (*HIP-2-ac*):
[Zn(*IP-2-ac*)₂(H₂O)] and unexpectedly isolated [Zn₃(*IP-2-ac*)₆(H₂O)]·11H₂O**

by

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Figure S1. (a) ESI-MS spectrum (m/z range 420-900) of solution containing dissolved crystalline product isolated from post reaction mixture, and (b-e) examples of experimental and calculated isotope distribution patterns for selected zinc (II) species.

(b)

(c)

(d)

(e)

Table S1. Geometry of proposed hydrogen bonds, close C—H $\cdots$ O contacts and $\pi\cdots\pi$ interactions in **1** and **2**.

compound 1				
<i>D</i> —H $\cdots$ <i>A</i>	<i>D</i> —H	H $\cdots$ <i>A</i>	<i>D</i> $\cdots$ <i>A</i>	<i>D</i> —H $\cdots$ <i>A</i>
O1 <i>W</i> —H1 <i>W</i> $\cdots$ O2 ⁱⁱ	0.84(3)	1.79(3)	2.617(2)	169(3)
C7—H7 $\cdots$ O2 ⁱⁱⁱ	0.95	2.59	3.330(3)	135
C8—H8 $\cdots$ O1 ⁱ	0.95	2.38	3.099(3)	132
C10—H10 <i>B</i> $\cdots$ O1 ^{iv}	0.99	2.57	3.184(2)	120
<i>Cg</i> <i>l</i>	<i>Cg</i> <i>j</i>	<i>Cg</i> $\cdots$ <i>Cg</i>	Dihedral angle	<i>Cg</i> _l _{perp}
<i>Cg</i> 1	<i>Cg</i> 2 ^v	3.644(2)	0.6(1)	3.438(1)
<i>Cg</i> 2	<i>Cg</i> 2 ^v	3.640(2)	0	3.432(1)
compound 2				
<i>D</i> —H $\cdots$ <i>A</i>	<i>D</i> —H	H $\cdots$ <i>A</i>	<i>D</i> $\cdots$ <i>A</i>	<i>D</i> —H $\cdots$ <i>A</i>
C3 <i>B</i> —H3 <i>B</i> $\cdots$ O4 <i>W</i> ^{vi}	0.93	2.47	3.383(14)	168
C6 <i>B</i> —H6 <i>B</i> $\cdots$ O2 <i>C</i> ^v	0.93	2.61	3.292(12)	130
C8 <i>B</i> —H8 <i>B</i> $\cdots$ O1 <i>A</i>	0.93	2.62	3.300(12)	131
C3 <i>C</i> —H3 <i>C</i> $\cdots$ O5 <i>W</i> ^v	0.93	2.49	3.276(15)	143
C8 <i>C</i> —H8 <i>C</i> $\cdots$ O1 <i>D</i>	0.93	2.55	3.241(10)	132
C5 <i>D</i> —H5 <i>D</i> $\cdots$ O10 <i>W</i> ^{vii}	0.93	2.36	3.18(2)	146
C8 <i>D</i> —H8 <i>D</i> $\cdots$ O1 <i>C</i>	0.93	2.54	3.200(12)	128
C6 <i>E</i> —H6 <i>E</i> $\cdots$ O12 <i>W</i>	0.93	2.63	3.40(2)	141
C8 <i>E</i> —H8 <i>E</i> $\cdots$ O1 <i>F</i>	0.93	2.50	3.178(14)	130
C85—H85 $\cdots$ O1 <i>F</i>	0.93	2.53	3.275(16)	138
C3 <i>F</i> —H3 <i>F</i> $\cdots$ O6 <i>W</i> ^{viii}	0.93	2.56	3.469(14)	166
C5 <i>F</i> —H5 <i>F</i> $\cdots$ O11 <i>W</i> ^{ix}	0.93	2.36	3.273(16)	168
C8 <i>F</i> —H8 <i>F</i> $\cdots$ O15	0.93	2.44	3.12(2)	129

O1W—H1W…O2W	0.84	1.87	2.706(9)	173
O1W—H2W…O3W	0.84	1.85	2.662(8)	163
O2W—H3W…O1A	0.84	1.89	2.725(10)	176
O2W—H4W…O4W	0.84	2.17	2.921(15)	149
O3W—H5W…O1F	0.84	2.02	2.842(9)	166
O3W—H6W…O5W	0.84	2.11	2.881(13)	153
O4W—H8W…O6W	0.84	2.51	3.001(16)	119
O5W—H9W…O2F ^{viii}	0.84	1.94	2.763(12)	166
O5W—H10W…O4W	0.84	2.11	2.951(17)	177
O6W—H11W…O9W	0.84	1.97	2.800(11)	168
O6W—H12W…O8W	0.84	2.45	2.879(14)	113
O7W—H13W…O5W	0.84	2.11	2.90(3)	157
O8W—H15W…O2E ^x	0.84	2.17	2.721(17)	123
O8W—H15W…O25 ^x	0.84	2.34	2.956(19)	130
O8W—H16W…O2E ^v	0.84	2.11	2.899(18)	158
O8W—H16W…O25 ^v	0.84	1.79	2.617(17)	167
O9W—H17W…O2D ^{xi}	0.84	2.11	2.840(9)	145
O9W—H18W…O2A	0.84	1.88	2.690(10)	161
O10W—H19W…O2W	0.84	2.25	2.872(13)	131
O10W—H20W…O11W	0.84	2.15	2.939(19)	156
O12W—H24W…O11W	0.84	2.31	2.872(17)	124
<i>Cg</i> l	<i>Cg</i> j	<i>Cg</i> … <i>Cg</i>	Dihedral angle	<i>Cg</i> l _{perp}
<i>Cg</i> 3	<i>Cg</i> 11 ^{xi}	3.606(7)	10.0(6)	3.524(4)
<i>Cg</i> 4	<i>Cg</i> 10	3.659(6)	4.9(5)	3.218(4)
<i>Cg</i> 5	<i>Cg</i> 9	3.472(6)	1.6(5)	3.342(4)
<i>Cg</i> 6	<i>Cg</i> 12	3.553(10)	2.1(9)	3.502(4)

<i>Cg</i> 7	<i>Cg</i> 11	3.667(10)	2.8(10)	3.429(9)
<i>Cg</i> 8	<i>Cg</i> 10 ^{xi}	3.774(7)	8.9(6)	3.484(5)
<i>Cg</i> 9	<i>Cg</i> 13 ^v	3.670(6)	16.6(5)	3.579(4)

Symmetry codes: (i) $-x+1, y, -z+1/2$; (ii) $-x+3/2, y-1/2, -z+1/2$; (iii) $x-1/2, -y+1/2, z+1/2$; (iv) $-x+3/2, y+1/2, -z+1/2$; (v) $-x+1, -y+1, -z+1$; (vi) $x-1, y, z$; (vii) $x, -y+3/2, z+1/2$; (viii) $-x+2, -y+1, -z+1$; (ix) $-x+2, y-1/2, -z+3/2$; (x) $x, y, z-1$; (xi) $x, -y+3/2, z-1/2$. *Cg*1, *Cg*2, *Cg*3, *Cg*4, *Cg*5, *Cg*6, *Cg*7, *Cg*8, *Cg*9, *Cg*10, *Cg*11, *Cg*12 and *Cg*13 are centroids of N1–C2–C3–N4–C9, N4–C5/C9, N1A–C2A–C3A–N4A–C9A, N1B–C2B–C3B–N4B–C9B, N1C–C2C–C3C–N4C–C9C, N1D–C2D–C3D–N4D–C9D, N1E–C2E–C3E–N4E–C9E, N4A–C5A/C9A, N4B–C5B/C9B, N4C–C5C/C9C, N4D–C5D/C9D, N4E–C5E/C9E and N4F–C5F/C9F rings, respectively. *Cgl*_{perp} is the perpendicular distance of *Cgl* on ring J.

Figure S2. Molecular geometry, thermal ellipsoids (shown at 30% probability level) and numbering scheme for coordination entities in **2**, broken down into environments of Zn1 (a), Zn2 (b) and Zn3 (c) ions. Atoms refined with minor occupancies are indicated by grey ellipsoid outlines and grey labels. Hydrogen bonds are indicated by orange, dashed lines.

Figure S3. (a) Possible path (main species) for the formation of $\text{Zn}_3(\text{IP-2-ac})_6(\text{H}_2\text{O})$ coordination entity.

Figure S4. TG-DTA plot for the $[\text{Zn}(\text{IP-2-ac})_2(\text{H}_2\text{O})]$ (**1**) complex.

Figure S5. DSC plot for the $[\text{Zn}(\text{IP-2-ac})_2(\text{H}_2\text{O})]$ (**1**) complex.

Figure S6. DFT optimized structure of $\text{Zn}(\text{IP-2-ac})_2(\text{H}_2\text{O})$ coordination entity of **1** with atom numbering scheme.

Table S2. Observed and calculated IR and Raman bands [cm^{-1}] attributed to vibrations of $[\text{Zn}(\text{IP-2-ac})_2(\text{H}_2\text{O})]$ (**1**) with their general and PED based assignments.

Nb.	Observed ^a				Calculated – 0.96 scaled		General assignment ^{b, c, d}	PED ^e (mostly $\geq 10\%$ ^e)
	H_2O		D_2O		H_2O	D_2O		
	IR	Raman	IR	Raman	[IR int, R activ]	[IR int, R activ]		
1	3148w	3150w	3137w	3150vw	3185 [2,57]	3186 [2,57]	$\nu(\text{C3-H15})+\nu(\text{C24-H35})$	$\nu(\text{C}_3-\text{H}_{15})$ -99
2	3082w	3090m	3080vw	3090m	3132[24,174]	3132[22,174]	$\nu(\text{C-H})_{\text{py}}$	$\nu(\text{C}_5-\text{H}_{16})$ -59 + $\nu(\text{C}_6-\text{H}_{17})$ -34
3	3050w	3045w	3051vw	3040w	3104 [27,86] 3093 [46,41]	3105 [26,36] 3093 [46,41]	$\nu(\text{C-H})_{\text{py}}$	$\nu(\text{C}_8-\text{H}_{19})$ -50 – $\nu(\text{C}_6-\text{H}_{17})$ -33 + $\nu(\text{C}_5-\text{H}_{16})$ -10 $\nu(\text{C}_7-\text{H}_{18})$ -52 – $\nu(\text{C}_8-\text{H}_{19})$ -34 – $\nu(\text{C}_6-\text{H}_{17})$ -12
4	2960sh	2970w	2198br	2218m	3733 [104,23]	2736 [77,20]	$\nu_{\text{a}}(\text{O-H})/\nu_{\text{a}}(\text{O-D})$	$\nu(\text{O}_{42}-\text{H}_{43})$ -90 – $\nu(\text{O}_{42}-\text{H}_{44})$ -8
5	2892br	2894s	2140sh	2136m	3421 [136,35]	2467 [60,39]	$\nu_{\text{s}}(\text{O-H})/\nu_{\text{s}}(\text{O-D})$	$\nu(\text{O}_{42}-\text{H}_{44})$ -58+ $\nu(\text{O}_{42}-\text{H}_{43})$ -10
6	n.o.	n.o.	2958vw	n.o.	3029 [25,41]	3029 [26,41]	$\nu_{\text{a}}(\text{CH}_2)$	$\nu(\text{C}_{10}-\text{H}_{20})$ – $\nu(\text{C}_{10}-\text{H}_{21})$ -93
7	n.o.	n.o.	n.o.	n.o.	2925[20,68]	2925 [19,68]	$\nu_{\text{s}}(\text{CH}_2)$	$\nu(\text{C}_{10}-\text{H}_{20})$ + $\nu(\text{C}_{10}-\text{H}_{21})$ -92
8	1636w	1642m	1637w	1640m	1615 [82,60]	1613 [77,62]	$\nu(8b)^c$	$\nu(\text{C}_5-\text{C}_6)$ -10 + $\nu(\text{C}_7-\text{C}_8)$ -7
9	1569br	1572vs	1567s	1571m	1526[97,292]	1527 [90,293]	$\nu(\text{C-C})_{\text{im}}$	$\nu(\text{C}_2-\text{C}_3)$ -34 + $\nu(\text{C}_{10}-\text{C}_2)$ -13
10	1560sh	n.o.	1542s	1546s	1586 [930,22]	1579 [1018,23]	$\nu(\text{C=O})$	$\nu(\text{C}_{11}-\text{O}_{13})$ -69
11	1560sh	n.o.	1128m	1131w	1425 [192,15]	1050 [176,7]	$\delta(\text{H}_2\text{O})/\delta(\text{D}_2\text{O})$	$\delta(\text{H}_{43}-\text{O}_{42}-\text{H}_{44})$ -35/44
12	1533w	1534s	1532sh	1531s	1503 [7,64]	1503 [3,656]	$\nu(8a)^c$	$\nu(\text{C}_7-\text{C}_8)$ -23 + $\nu(\text{C}_6-\text{C}_7)$ -21
13	1502s	1509m	1499m	1500m	1475 [236,103]	1473 [234,103]	$\nu(19b)^c$	$\nu(\text{C}_5-\text{C}_6)$ -16 + $\nu(\text{C}_8-\text{C}_9)$ -11 + $\nu(\text{C}_9-\text{N}_1)$ -10
14	1453w	1453w	1451w	1454w	1437 [40,20]	1437 [27,20]	$\delta(\text{CH}_2)$	$\delta(\text{H}_{20}-\text{C}_{10}-\text{H}_{21})$ - 66
15	1405m	n.o.	1394s	1395w	1424 [28,4]	1423 [2,5]	$\nu(\text{C-N})_{\text{py}}$	$\nu(\text{N}_4-\text{C}_5)$ -12 + $\delta(\text{H}_{43}-\text{O}_{42}-\text{H}_{44})$ -5
16	1373s	1375m	1321m	1321m	1346[66,223]	1344 [65,223]	$\nu(\text{C-N})_{\text{py}}$	$\nu(\text{N}_4-\text{C}_5)$ -13 + $\nu(\text{N}_4-\text{C}_9)$ -7
17	1359s	1360s	1357m	1358s	1326 [27,21]	1326 [25,21]	$\nu_{\text{a}}(\text{N1-C}) + \delta(\text{CH})_{\text{py}}$	$\nu(\text{N}_1-\text{C}_9)$ -6 + $\delta(\text{C}_8-\text{C}_7-\text{H}_{18})$ -6
18	1334m	1337w	1329m	1329m	1313 [95,22]	1313 [90,23]	$\nu(\text{C-N})_{\text{im}}$	$\nu(\text{N}_1-\text{C}_2)$ -14 + $\nu(\text{N}_1-\text{C}_9)$ -11
19	1295s	1297s	1296s	1297s	1270 [137,63]	1270 [191,81]	$\nu_{\text{a}}(\text{C-N})_{\text{im}} + \rho_{\text{w}}(\text{CH}_2)$	$\nu(\text{N}_1-\text{C}_9)$ -6 + $\rho_{\text{w}}(\text{CH}_2)$ -6
20	1284s	n.o.	1296s	1297s	1226 [426,16]	1227 [373,134]	$\nu(\text{C-O}) + \delta(\text{H}_2\text{O})/\nu(\text{C-O})$	$\nu(\text{C}_{11}-\text{O}_{12})$ -32 + $\nu(\text{C}_{10}-\text{C}_{11})$ -15
21	1254m	1257s	1250m	1253s	1219 [156,143]	1219 [127,138]	$\nu(\text{C-N})$	$\nu(\text{C}_3-\text{N}_4)$ -19
22	1205m	1207m	1191w	1190w	1177 [12,13]	1177 [10,9]	$\delta(\text{CH})_{\text{im}}$	$\delta(\text{N}_4-\text{C}_3-\text{H}_{15})$ - 15+ $\delta(\text{C}_2-\text{C}_3-\text{H}_{15})$ - 10
23	1148m	1152m	1150m	1152m	1124 [11,31]	1124 [11,34]	$\rho_{\text{r}}(\text{CH}_2) + \delta(\text{CH})_{\text{py}}$	$\delta(\text{C}_2-\text{C}_3-\text{H}_{15})$ -12 + $\delta(\text{C}_{11}-\text{C}_{10}-\text{H}_{20})$ -11
24	1127vw	1128w	n.o.	n.o.	1103 [11,13]	1103 [12,13]	$\nu(9b)^c + \delta(\text{CH})$	$\nu(\text{C}_7-\text{C}_8)$ -9 + $\delta(\text{C}_7-\text{C}_6-\text{H}_{17})$ -8
25	1038m	1039m	1031m 1022m	1032m 1024m	1008 [7,75]	1008 [55,75]	$\nu(1)^c + \nu(\text{C-N})$	$\nu(\text{C}_7-\text{C}_6)$ -13 + $\nu(\text{N}_1-\text{C}_2)$ -7
26	1005m	1009vw	981m	983m	978 [42,1]	978 [41,1]	$\nu(19b)^c$	$\nu(\text{C}_7-\text{C}_6)$ -17
27	n.o.	945m	n.o.	936m	949 [2,2]	949 [2,2]	$\pi(\text{CH})_{\text{py}}$	$\pi(\text{H}_{17}-\text{C}_6, \text{C}_5, \text{C}_7)$ -60 – $\pi(\text{H}_{16}-\text{C}_5, \text{N}_4, \text{C}_6)$ -27
28	931m	921m	932m	926m	941 [14,3]	941 [13,3]	$\rho_{\text{r}}(\text{CH}_2)$	$\rho_{\text{r}}(\text{CH}_2)$ -33
29			908m	911m			O-D...O deformation	
30			879m	880m			O-D...O deformation	
31	858m	862m	852w	848w	830 [17,38]	830 [16,38]	$\nu(\text{C-N}) + \nu(1)^c$	$\nu(\text{N}_4-\text{C}_9)$ -10

32	827m,br	n.o.	601w,br	n.o.			$\rho_t(\text{H}_2\text{O})/\rho_t(\text{D}_2\text{O})$	
33	761s	760w	760s	754m	769 [168,8]	769 [160,8]	$\pi(\text{CH})_{\text{im}} + \pi(\text{CH})_{\text{py}}$	$\pi(\text{H}_{15}-\text{C}_3, \text{C}_2, \text{C}_4)-30 + \pi(\text{H}_{18}-\text{C}_7, \text{C}_6, \text{C}_8)-24 +$ $\pi(\text{H}_{16}-\text{C}_5, \text{N}_4, \text{C}_6)-20 + \pi(\text{H}_{17}-\text{C}_6, \text{C}_5, \text{C}_7)-13$
34	753s	n.o.	732m	734m	752 [17,6]	752 [17,6]	$\gamma(4)^c$	$\pi(\text{C}_8-\text{C}_9, \text{N}_1, \text{N}_4)-20 + \gamma(\text{N}_1-\text{C}_9-\text{N}_4-\text{C}_3)-12$
35	716s 702s	722w	522s 507m	524w			$\rho_t(\text{H}_2\text{O})/\rho_t(\text{D}_2\text{O})$	
36	656s	660w	665m	668vw	669 [54,9]	665 [53,9]	$\delta(\text{COO}) + \nu(6b)^c$	$\delta(\text{O}_{12}-\text{C}_{11}-\text{O}_{13})-10 + \nu(\text{C}_2-\text{C}_{10})-5$
37	631w	634m	627w	630m	643 [63,9]	643 [22,10]	$\gamma(16a)^c$	$\gamma(\text{N}_4-\text{C}_3-\text{C}_2-\text{N}_1)-47 + \pi(\text{C}_3-\text{C}_2, \text{N}_1, \text{C}_{10})-14$
38	581m	582m	579m	580w	562[13,1]	562[1,1]	$\gamma(17a)^c$	$\gamma(\text{C}_8-\text{C}_7-\text{C}_6-\text{C}_5)-29 + \gamma(\text{C}_9-\text{C}_8-\text{C}_7-\text{C}_6)-21$
39	566w	566w	563w	565m	561 [1,1]	561 [1,1]	$\gamma(17a)^c$	$\gamma(\text{C}_{29}-\text{C}_{28}-\text{C}_{27}-\text{C}_{26})-33 + \gamma(\text{C}_{30}-\text{C}_{29}-\text{C}_{28}-\text{C}_{27})-23$
40	547m	545m	450m	450m			$\rho_w(\text{H}_2\text{O})/\rho_w(\text{D}_2\text{O})$	
41	479m	480w	464w	464w	469 [2,4]	468 [9,5]	$\delta(\text{py-im})$	$\delta(\text{N}_1-\text{C}_9-\text{C}_8)-12 - \delta(\text{C}_3-\text{N}_4-\text{C}_5)-10$
42	436s	437m	430s	432w	441 [21,9]	442 [54,10]	$\gamma(16b)^c$	$\gamma(\text{C}_9-\text{C}_8-\text{C}_7-\text{C}_6)-21 + \gamma(\text{C}_7-\text{C}_6-\text{C}_5-\text{N}_4)-3$
43	370vw	376m	n.o.	367m	370 [9,16]	370 [7,16]	$\delta(\text{C-COO})$	$\delta(\text{C}_{10}-\text{C}_{11}-\text{O}_{13})-18 - \delta(\text{C}_{10}-\text{C}_{11}-\text{O}_{12})-12$
44	338m	340w	334m	335w	340 [14,7]	339 [11,6]	$\nu(\text{Zn-O})$	$\nu(\text{Zn}_{14}-\text{O}_{12})-14$
45	290s	289w	272s	272w	329 [8,2]	318 [7,1]	$\nu(\text{Zn-OH}_2) / \nu(\text{Zn-OD}_2)$	$\nu(\text{Zn}_{14}-\text{O}_{42})-28 / \nu(\text{Zn}_{14}-\text{O}_{42})-40$
46	281s	n.o.	278s	n.o.	389 [29,4]	288 [24,5]	$\nu(\text{Zn-O})$	$\nu(\text{Zn}_{14}-\text{O}_{12})-35$
47	257m 251s	n.o.	245s	n.o.	272 [10,7] 263 [18,1]	272 [20,8] 262 [25,1]	$\nu(\text{Zn-N})$	$\nu(\text{Zn}_{14}-\text{N}_{22})-17$ $\nu(\text{Zn}_{14}-\text{N}_1)-16$
48	209s	n.o.	208s	n.o.	217 [26,5]	213 [26,5]	$\nu(\text{Zn-O}) + \gamma(\text{C-O-Zn-O})$	$\nu(\text{Zn}_{14}-\text{O}_{33})-11 + \nu(\text{Zn}_{14}-\text{O}_{12})-10 + \gamma(\text{C}_{32}-\text{O}_{33}-\text{Zn}_{14}-\text{O}_{12})$
49	173s	176w	173s	174w	178 [20,7]	181 [10,3]	$\gamma(\text{O-Zn-O-C}) + \nu(\text{Zn-N})$	$\gamma(\text{O}_{33}-\text{Zn}_{14}-\text{O}_{12}-\text{C}_{11})-36 + \nu(\text{Zn}_{14}-\text{N}_1)-24$
50	153s	157m	150m	152m	155 [4,7]	153 [18,9]	$\gamma(\text{Zn-O-C-O}) + \gamma(\text{C-O-Zn-O})$	$\gamma(\text{Zn}_{14}-\text{O}_{12}-\text{C}_{11}-\text{O}_{13})-57 + \gamma(\text{C}_{32}-\text{O}_{33}-\text{Zn}_{14}-\text{O}_{12})-27$
51	140w	139m	139w	136m	133 [4,16]	128 [4,17]	$\gamma(\text{Zn-O-C-O}) + \gamma(\text{O-Zn-O-C})$	$\gamma(\text{Zn}_{14}-\text{O}_{12}-\text{C}_{11}-\text{O}_{13})-30 + \gamma(\text{O}_{33}-\text{Zn}_{14}-\text{O}_{12}-\text{C}_{11})-28$
52	116m	112s	113m	110s	101 [7,12]	100 [6,12]	$\gamma(\text{C-C-C-N}) + \nu(\text{Zn-N})$	$\gamma(\text{C}_{11}-\text{C}_{10}-\text{C}_2-\text{N}_1)-13 + \nu(\text{Zn}_{14}-\text{N}_1)-12$
53	91s	n.o.	90	n.o.			lattice	
54	78s	79s	75s	79s			lattice	

^a s – strong, m – medium, w – weak, vs – very strong, vw – very weak, sh – shoulder, br – broad, n.o. –not observed.

^b ν_a – antisymmetric stretching, ν_s – symmetric stretching, δ – bending in-plane, ρ_t – twisting, ρ_w – wagging, ρ_r – rocking, π – bending out-of-plane, γ – torsion,

^c Wilson's notation for benzene vibrations.

^d The slash separates the assignment for natural and deuterated compound.

^e In case of ligand modes very similar in both ligand molecules, the PED data is given only for one ligand with atom numbers below 22.

Table S3. The photos of inhibition zones of imidazo[1,2-a]pyridin-2-ylacetic acid (HL= *HIP-2-ac*), $[M(IP-2-ac)_2(H_2O)_2] \cdot 2H_2O$ (M = Ni, Co, Mn, Cd) complexes and $[Zn(IP-2-ac)_2(H_2O)]$ complex (**1**) against the studied microbial strains.

	Free ligand	$NiL_2(H_2O)_2 \cdot 2H_2O$	$CoL_2(H_2O)_2 \cdot 2H_2O$	$MnL_2(H_2O)_2 \cdot 2H_2O$	$CdL_2(H_2O)_2 \cdot 2H_2O$	$ZnL_2(H_2O)$
<i>Bacillus subtilis</i>
<i>Staphylococcus aureus</i>
<i>Mycobacterium fortuitum</i>
<i>Enterococcus hirae</i>
<i>Escherichia coli</i>
<i>Pseudomonas aeruginosa</i>
<i>Candida albicans</i>

Figure S7. Effect of ligand ((HL= *HIP-2-ac*), reference nitrate salts, $[\text{Zn}(\text{IP-2-ac})_2(\text{H}_2\text{O})]$ complex (**1**) and a series of $[\text{M}(\text{IP-2-ac})_2(\text{H}_2\text{O})_2] \cdot 2\text{H}_2\text{O}$ ($\text{M} = \text{Ni}, \text{Co}, \text{Mn}, \text{Cd}$) complexes (10% active content in starch) on Gram-positive bacteria: *Bacillus subtilis*, *Staphylococcus aureus*, *Enterococcus hirae*, *Mycobacterium fortuitum*, Gram-negative bacteria: *Escherichia coli*, *Pseudomonas aeruginosa* and yeast *C. albicans*.