

ID	Adsorbent	Carbonization temperature [°C]	Production area	Particle size	Aqueous solution			Amount of adsorbent m[g]	Solution volume V[m]	Mixing time(1) [h]	Ion concentration of the solution			Cs adsorption ratio [%]	Kd(Cs)
					Composition,etc.	pH	Filtration ○:Yes ×:No				Cs [ppm]	Sr(2) [ppm]	I(3) [ppm]		
001	Corncob charcoal	400		2mm under	Ultrapure water	-	○	0.1	25	10 min	1.0			61.3	153.2
002	Corncob charcoal	400		2mm under	Ultrapure water	-	○	0.1	25	20 min	1.0			55.9	139.7
003	Corncob charcoal	400		2mm under	Ultrapure water	-	○	0.1	25	30 min	1.0			65.6	163.9
004	Corncob charcoal	500		2mm under	Ultrapure water	-	○	0.1	25	10 min	1.0			36.1	90.2
005	Corncob charcoal	500		2mm under	Ultrapure water	-	○	0.1	25	20 min	1.0			48.7	121.7
007	Corncob charcoal	600		2mm under	Ultrapure water	-	○	0.1	25	10 min	1.0			9.6	24.1
009	Corncob charcoal	600		2mm under	Ultrapure water	-	○	0.1	25	30 min	1.0			19.6	48.9
010	Corncob charcoal	700		2mm under	Ultrapure water	-	○	0.1	25	10 min	1.0			19.5	48.7
011	Corncob charcoal	700		2mm under	Ultrapure water	-	○	0.1	25	20 min	1.0			1.6	4.1
012	Corncob charcoal	700		2mm under	Ultrapure water	-	○	0.1	25	30 min	1.0			36.2	90.5
013	Corncob charcoal	800		2mm under	Ultrapure water	-	○	0.1	25	10 min	1.0			6.3	15.9
015	Corncob charcoal	800		2mm under	Ultrapure water	-	○	0.1	25	30 min	1.0			5.2	12.9
016	Corncob charcoal	900		2mm under	Ultrapure water	-	○	0.1	25	10 min	1.0			31.4	78.5
017	Corncob charcoal	900		2mm under	Ultrapure water	-	○	0.1	25	20 min	1.0			0.6	1.4
018	Corncob charcoal	900		2mm under	Ultrapure water	-	○	0.1	25	20 min	1.0			25.2	63.1
019	Corncob charcoal		Dalian	2mm under	Ultrapure water	-	○	0.1	25	10 min	1.0			55.4	138.6
020	Corncob charcoal		Dalian	2mm under	Ultrapure water	-	○	0.1	25	20 min	1.0			58.9	147.3
021	Corncob charcoal		Dalian	2mm under	Ultrapure water	-	○	0.1	25	30 min	1.0			62.9	157.3
022	Active carbon			2mm under	Ultrapure water	-	○	0.1	25	30 min	1.0			16.5	41.3
023	Oak charcoal	500		2mm under	Ultrapure water	-	○	0.1	25	30 min	1.0			15.4	38.6
024	Corncob charcoal	600		2mm under	Ultrapure water	-	○	0.3	25	30 min	1.0			21.3	17.8
025	Corncob charcoal	600		2mm under	Ultrapure water	-	○	0.5	25	30 min	1.0			30.5	15.2
026	Corncob charcoal	900		2mm under	Ultrapure water	-	○	0.3	25	30 min	1.0			25.1	21.0
027	Corncob charcoal	900		2mm under	Ultrapure water	-	○	0.5	25	30 min	1.0			34.2	17.1
028	Corncob charcoal		Dalian	2mm under	Ultrapure water	-	○	0.3	25	30 min	1.0			66.1	55.1
029	Corncob charcoal		Dalian	2mm under	Ultrapure water	-	○	0.5	25	30 min	1.0			68.6	34.3
030	Corncob charcoal	400		2mm under	Ultrapure water	-	○	0.25	25	30 min	1.0			85.0	85.0
031	Corncob charcoal	450		2mm under	Ultrapure water	-	○	0.25	25	30 min	1.0			71.0	71.0
032	Corncob charcoal	600		2mm under	Ultrapure water	-	○	0.25	25	30 min	1.0			14.0	14.0
035	Corncob charcoal	450		2mm under	Ultrapure water	9.50	○	0.25	25	24	1.0			65.0	65.0
036	Corncob charcoal	500		2mm under	Ultrapure water	9.50	○	0.25	25	24	1.0			10.0	10.0
037	Corncob charcoal	600		2mm under	Ultrapure water	9.20	○	0.25	25	24	1.0			1.0	1.0
039	Corncob charcoal	400		2mm under	Ultrapure water	9.82	○	0.25	25	24	1.0			93.6	93.6
040	Corncob charcoal	400		2mm under	Ultrapure water	9.84	○	0.25	25	24	1.0			93.4	93.4
041	Corncob charcoal	450		2mm under	Ultrapure water	9.26	○	0.25	25	24	1.0			88.9	88.9
042	Corncob charcoal	450		2mm under	Ultrapure water	9.23	○	0.25	25	24	1.0			89.1	89.1
043	Corncob charcoal	500		2mm under	Ultrapure water	9.41	○	0.25	25	24	1.0			84.3	84.3
044	Corncob charcoal	500		2mm under	Ultrapure water	9.43	○	0.25	25	24	1.0			84.3	84.3
045	Corncob charcoal	600		2mm under	Ultrapure water	9.28	○	0.25	25	24	1.0			50.9	50.9
046	Corncob charcoal	600		2mm under	Ultrapure water	9.23	○	0.25	25	24	1.0			50.8	50.8
047	Corncob charcoal	800		2mm under	Ultrapure water	9.58	○	0.25	25	24	1.0			44.6	44.6
048	Corncob charcoal	800		2mm under	Ultrapure water	9.62	○	0.25	25	24	1.0			39.0	39.0
049	Corncob charcoal	400		2mm under	Ultrapure water	9.92	○	0.25	25	1	1.0			91.1	91.1
050	Corncob charcoal	400		2mm under	Ultrapure water	9.96	○	0.25	25	1	1.0			91.4	91.4
051	Corncob charcoal	400		2mm under	Ultrapure water	9.98	○	0.25	25	3	1.0			92.0	92.0
052	Corncob charcoal	400		2mm under	Ultrapure water	9.96	○	0.25	25	3	1.0			92.2	92.2
053	Corncob charcoal	400		2mm under	Ultrapure water	10.00	○	0.25	25	5	1.0			93.1	93.1
054	Corncob charcoal	400		2mm under	Ultrapure water	10.03	○	0.25	25	5	1.0			92.7	92.7
055	Corncob dry matter			2mm under	Ultrapure water	6.44	○	0.25	25	24	1.0			43.9	43.9
056	Corncob dry matter			2mm under	Ultrapure water	6.35	○	0.25	25	24	1.0			46.4	46.4
057	Corncob charcoal		Dalian	2mm under	Ultrapure water	9.02	○	0.25	25	24	1.0			81.5	81.5
058	Corncob charcoal		Dalian	2mm under	Ultrapure water	9.08	○	0.25	25	24	1.0			80.7	80.7
059	Black oak_1			2mm under	Ultrapure water	9.44	○	0.25	25	24	1.0			54.0	54.0
060	Black oak_2			2mm under	Ultrapure water	9.52	○	0.25	25	24	1.0			54.1	54.1

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				Particle size	Composition, etc.	pH	Filtration ○:Yes ×:No	Amount of adsorbent m[g]	Solution volume V[ml]	Mixing time(1) [h]	Cs [ppm]			Sr(2) [ppm]
061	White oak_1			2mm under	Ultrapure water	7.84	○	0.25	25	24	1.0		42.9	42.9
062	White oak_2			2mm under	Ultrapure water	7.57	○	0.25	25	24	1.0		37.5	37.5
063	Cryptomeria japonica_1			2mm under	Ultrapure water	6.87	○	0.25	25	24	1.0		48.3	48.3
064	Cryptomeria japonica_2			2mm under	Ultrapure water	6.78	○	0.25	25	24	1.0		38.5	38.5
065	Janese red pine_1			2mm under	Ultrapure water	5.15	○	0.25	25	24	1.0		38.3	38.3
066	Japanese red pine_2			2mm under	Ultrapure water	5.24	○	0.25	25	24	1.0		37.1	37.1
067	Active carbon_1			2mm under	Ultrapure water	5.01	○	0.25	25	24	1.0		29.7	29.7
068	Active carbon_2			2mm under	Ultrapure water	5.04	○	0.25	25	24	1.0		28.1	28.1
101	KIMUKO_1				Ultrapure water	6.22	○	0.25	25	24	1.0		50.3	50.3
102	KIMUKO_2				Ultrapure water	6.21	○	0.25	25	24	1.0		49.5	49.5
103	Coffee_1				Ultrapure water	4.92	○	0.25	25	24	1.0		47.0	47.0
104	Coffee_2				Ultrapure water	4.98	○	0.25	25	24	1.0		46.2	46.2
105	Cornstalk charcoal	600		2mm under	Ultrapure water	10.00	○	0.25	25	24	1.0		76.3	76.3
106	Cornstalk charcoal	600		2mm under	Ultrapure water	10.03	○	0.25	25	24	1.0		77.1	77.1
107	Cornstalk charcoal	800		2mm under	Ultrapure water	10.50	○	0.25	25	24	1.0		71.3	71.3
108	Cornstalk charcoal	800		2mm under	Ultrapure water	10.56	○	0.25	25	24	1.0		97.3	97.3
109	Ubame oak_1			2mm under	Ultrapure water	8.91	○	0.25	25	24	1.0		42.7	42.7
110	Ubame oak_2			2mm under	Ultrapure water	9.05	○	0.25	25	24	1.0		46.6	46.6
111	Magnolia_1			2mm under	Ultrapure water	9.86	○	0.25	25	24	1.0		69.9	69.9
112	Magnolia_2			2mm under	Ultrapure water	9.90	○	0.25	25	24	1.0		71.4	71.4
113	Cornstalk charcoal	500		2mm under	Ultrapure water	9.91	○	0.25	25	24	1.0		85.8	85.8
114	Cornstalk charcoal	500		2mm under	Ultrapure water	9.88	○	0.25	25	24	1.0		86.4	86.4
115	Corncob charcoal	400		2mm under	Ultrapure water	9.71	○	0.25	25	24	1.0		90.8	90.8
116	Corncob charcoal	400		2mm under	Ultrapure water	9.78	○	0.25	25	24	1.0		90.2	90.2
117	Corncob charcoal	600		2mm under	Ultrapure water	9.62	○	0.25	25	24	1.0		57.8	57.8
118	Corncob charcoal	600		2mm under	Ultrapure water	9.34	○	0.25	25	24	1.0		57.1	57.1
119	Corncob charcoal	800		2mm under	Ultrapure water	9.80	○	0.25	25	24	1.0		57.6	57.6
120	Corncob charcoal	800		2mm under	Ultrapure water	9.82	○	0.25	25	24	1.0		57.5	57.5
121	Cornstalk charcoal	800		2mm under	Ultrapure water	10.40	○	0.25	25	24	1.0		75.2	75.2
124	Corncob charcoal	900		2mm under	Ultrapure water	10.36	○	0.25	25	24	1.0		68.2	68.2
125	Corncob charcoal	900		2mm under	Ultrapure water	10.33	○	0.25	25	24	1.0		69.7	69.7
126	Corncob charcoal	1000		2mm under	Ultrapure water	10.08	○	0.25	25	24	1.0		60.8	60.8
127	Corncob charcoal	1000		2mm under	Ultrapure water	10.14	○	0.25	25	24	1.0		61.4	61.4
128	Corncob charcoal	400		2mm under	Ultrapure water	9.65	○	0.125	25	24	1.0		88.3	176.7
129	Corncob charcoal	400		2mm under	Ultrapure water	9.50	○	0.125	25	24	1.0		86.5	172.9
130	Corncob charcoal	800		2mm under	Ultrapure water	9.61	○	0.125	25	24	1.0		52.7	105.4
131	Corncob charcoal	800		2mm under	Ultrapure water	9.64	○	0.125	25	24	1.0		52.2	104.5
132	Black oak_1			2mm under	Ultrapure water	8.91	○	0.125	25	24	1.0		56.7	113.4
133	Black oak_2			2mm under	Ultrapure water	8.70	○	0.125	25	24	1.0		52.7	105.4
134	Active carbon_1			2mm under	Ultrapure water	5.10	○	0.125	25	24	1.0		26.5	52.9
135	Active carbon_2			2mm under	Ultrapure water	5.02	○	0.125	25	24	1.0		27.4	54.7
142	Corncob charcoal	400		2mm under	Ultrapure water	9.74	○	0.10	25	24	1.0		96.2	240.4
143	Corncob charcoal	400		2mm under	Ultrapure water	9.75	○	0.10	25	24	1.0		89.2	223.0
144	Corncob charcoal	800		2mm under	Ultrapure water	9.65	○	0.10	25	24	1.0		56.5	141.3
145	Corncob charcoal	800		2mm under	Ultrapure water	9.73	○	0.10	25	24	1.0		55.6	139.1
146	Corncob charcoal	400		2mm under	Ultrapure water	9.42	○	0.050	25	24	1.0		84.0	419.8
147	Corncob charcoal	400		2mm under	Ultrapure water	9.30	○	0.050	25	24	1.0		83.7	418.3
148	Corncob charcoal	800		2mm under	Ultrapure water	9.47	○	0.050	25	24	1.0		47.1	235.6
149	Corncob charcoal	800		2mm under	Ultrapure water	9.52	○	0.050	25	24	1.0		47.7	238.7
150	Corncob charcoal	400		2mm under	Ultrapure water	-	○	0.25	25	10 min	1.0		89.8	89.8
151	Corncob charcoal	400		2mm under	Ultrapure water	-	○	0.25	25	10 min	1.0		90.2	90.2
152	Corncob charcoal	800		2mm under	Ultrapure water	-	○	0.25	25	10 min	1.0		71.7	71.7
153	Corncob charcoal	800		2mm under	Ultrapure water	-	○	0.25	25	10 min	1.0		71.9	71.9
154	Corncob charcoal	400		2mm under	Ultrapure water	-	○	0.25	25	30 min	1.0		90.9	90.9
155	Corncob charcoal	400		2mm under	Ultrapure water	-	○	0.25	25	30 min	1.0		91.2	91.2

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156	Corncob charcoal	800		2mm under	Ultrapure water	-	○	0.25	25	30 min	1.0		70.7	70.7
157	Corncob charcoal	800		2mm under	Ultrapure water	-	○	0.25	25	30 min	1.0		71.1	71.1
158	Quercus acutissima_1		Motoyoshi	2mm under	Ultrapure water	8.98	○	0.25	25	24	1.0		48.7	48.7
159	Quercus acutissima_2		Motoyoshi	2mm under	Ultrapure water	8.89	○	0.25	25	24	1.0		92.7	92.7
160	Quercus acutissima_1		Kantoh	2mm under	Ultrapure water	10.22	○	0.25	25	24	1.0		90.2	90.2
161	Quercus acutissima_2		Kantoh	2mm under	Ultrapure water	10.21	○	0.25	25	24	1.0		90.5	90.5
162	Bamboo charcoal_1			2mm under	Ultrapure water	9.90	○	0.25	25	24	1.0		82.2	82.2
163	Bamboo charcoal_2			2mm under	Ultrapure water	9.96	○	0.25	25	24	1.0		80.5	80.5