Appendix C: List of validated co-occurrences

NO	BIOMASS	APPLICATION	THE CO-OCCURRENCE REPRESENTS THE ASSUMED CONNECTION	PERCENTAGE of the co-occurrence which represents the assummed connection over total validated co-occurrences	REFERENCES
Type of validation: top most frequent co-occurrences (f ∈ [20;238])				95%	
1	organic_housewaste	compost	yes		[1]
2	organic_housewaste	dedicated_combustion_/_incineration	yes		[2]
3	glycerol	biodiesel	yes		[3]
4	food_leftovers	compost	yes		[4]
5	glycerol	ethanol_/_bioethanol	yes		[5]
6	glycerol	methanol	yes		[6]
7	maize_stover	ethanol_/_bioethanol	yes		[7]
8	poultry_manure	compost	yes		[8]
9	pig_manure	compost	yes		[9]
10	animal_fats	biodiesel	yes		[10]
11	cattle_manure	compost	yes		[11]
12	glycerol	acetic_acid	no		
13	food_leftovers	biohydrogen	yes		[12]
14	glycerol	fatty_acids	yes		[13]
15	sugar_beet_melasse	ethanol_/_bioethanol	yes		[14]
16	glycerol	ethylene_glycol	yes		[15]
17	rice_straw	ethanol_/_bioethanol	yes		[16]
18	food_leftovers	dedicated_combustion_/_incineration	yes		[17]
19	organic_housewaste	ethanol_/_bioethanol	yes		[18]
20	champost	compost	yes		[19]
21	wheat_straw	ethanol_/_bioethanol	yes		[20]
Type of validation: co-occurrences happened once				40%	
1	animal_bloodmeal	compost	no		
2	apple_pomace	arginine	no		
3	barley_straw	acetic_acid	no		
4	cattle_manure	biofilter	yes		[21]
5	champost	olefin	no		
6	cocoa_shell	briquette_/_pellet_fuel	yes		[22]
7	distillers_grains	briquette_/_pellet_fuel	yes		[23]
8	distillers_grains	valine	no		
9	fish_meal	styrene-butadiene_rubber_(sbr)	no		
10	food_leftovers	xylitol	no		
11	glycerol	hydroxyproline	no		
12	glycerol	vanillin	no		
13	maize_stover	adipic_acid	yes		[24]
14	malt_coffee_marc	acetic_acid	no		
15	meadow_hay	acetic_acid	no		
16	organic_housewaste	fructose	yes		[25]
17	pig_manure	bio-absorbent	yes		[26]
18	potato_peel	acetone	yes		[27]
19	rapeseed_extraction_meal	acetic_acid	no		
20	rice_straw	fatty_acids	yes		[28]
Type of validation: unexpected co-occurrences				58%	
1	animal_feather_meal	pharmaceutical	yes		[29]
2	banana_peel	biogasoline	yes		[30]
3	cattle_manure	acetone	yes		[31]
4	cattle_manure	ethanol_/_bioethanol	yes		[32]
5	cattle_manure	methanol	no		
6	champost	biohydrogen	yes		[33]
7	pig_manure	biodiesel	yes		[34]
8	organic_housewaste	polyamide_(pa)	no		
9	organic_housewaste	polybutylene_terephthalate_(pbt)	no		
10	organic_housewaste	polyethylene_(pe)	no		

11	organic_housewaste	polyethylene_tetraphthalate_(pet)	no		
12	organic_housewaste	polyhydroxy_alkanoate_(pha)	yes		[35]
13	organic_housewaste	polypropylene_(pp)	no		
14	organic_housewaste	polystyrene_(ps)	no		
15	organic_housewaste	polyvinylchloride_(pvc)	no		
16	organic_housewaste	styrene-butadiene_rubber_(sbr)	no		
17	pig_manure	pyrolysis_oil	yes		[36]
18	poultry_manure	methyl_esters	yes		[37]
19	wastewaster_sludge	pyrolysis_oil	yes		[38]
20	vegetable_waste_(general)	levulinic_acid	yes		[39]
Type of validation: feedstocks with lowest number of co-occurring applications (number of application ∈ [1;3])				66%	
1	coconut_extraction_meal	polyhydroxy_alkanoate_(pha)	yes		[40]
2	pulp_and_paper_industry_wastewater	styrene-butadiene_rubber_(sbr)	no		
3	brewers_grains	compost	yes		[41]
4	feeding_beet_leaves	compost	yes		[42]
5	brewers_yeast	bioethanol	yes		[43]
6	sunflower_peelings	furfural	yes		[44]
7	meadow_hay	acid acetic	no		
8	animal_bloodmeal	compost	no		
9	natural_grass	animal feed	yes		[45]
10	roadside_grass	animal feed	no		
11	oilseed_processing_wastewater	comeric acid	no		
12	rumen_content	lactate	no		
13	rumen_content	methionine	no		
14	sunflower_extraction_meal	pyrolysis_oil	yes		[46]
15	sunflower_extraction_meal	soil_improver	yes		[47]
16	brewery_industry_wastewaters	biodiesel	yes		[48]
17	brewery_industry_wastewaters	ethanol_/_bioethanol	no		
18	rye_straw	compost	yes		[49]
19	rye_straw	levulinic_acid	yes		[50]
20	rye_straw	substituted_lignins	yes		[51]
21	cotton_seed_extraction_meal	biodiesel	yes		[52]
22	cotton_seed_extraction_meal	lactic_acid	yes		[53]
23	cotton_seed_extraction_meal	pyrolysis_oil	yes		[54]
24	dairy_industry_wastes_(general)	lactic_acid	yes		[55]
25	dairy_industry_wastes_(general)	pharmaceutical	yes		[55]
26	dairy_industry_wastes_(general)	polylactic_acid_(pla)	yes		[55]
27	olive_pulp	compost	yes		[56]
28	olive_pulp	green_solvents	no		
29	olive_pulp	soil_improver	yes		[57]
30	cut_flower_wastes	ethanol_/_bioethanol	yes		[58]
31	cut_flower_wastes	biodiesel	yes		[58]
32	cut_flower_wastes	compost	yes		[59]
33	slaughtherhouse_wastewater	biodiesel	no		
34	slaughtherhouse_wastewater	glycerol	no		
35	slaughtherhouse_wastewater	polystyrene_(ps)	no		
36	meat_waste	animal_feed	yes		[60]
37	meat_waste	biohydrogen	yes		[61]
38	meat_waste	compost	yes		[62]
39	ryegrass_straw	acetic_acid	no		
40	ryegrass_straw	animal_feed	yes		[63]
41	ryegrass_straw	citric_acid	no		
			Total	65%	

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