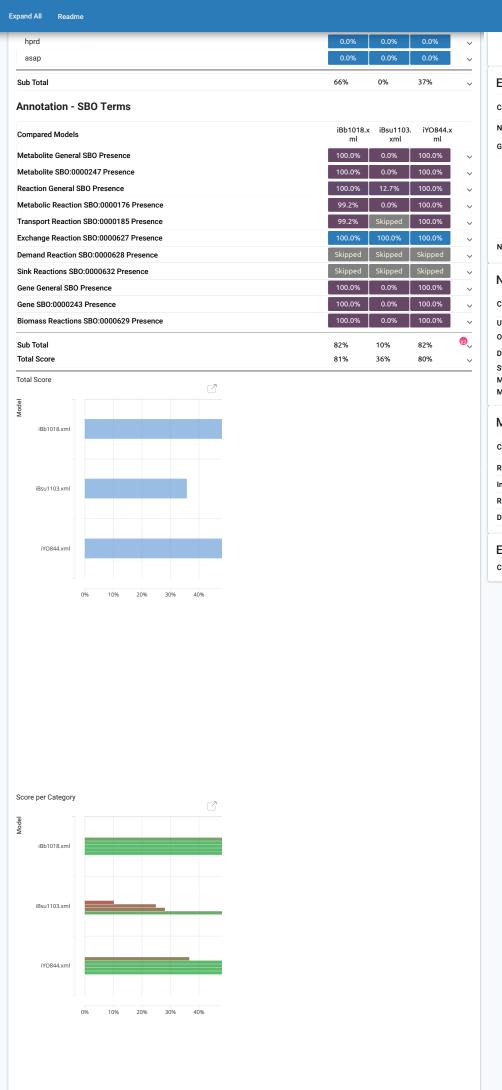
Consistency	
	iBb1018.x iBsu1103. iY0844.;
Compared Models	ml xml ml
Stoichiometric Consistency Mass Balance	100.0% 100.0% 100.0% 92.4% 0.0% 94.4%
Charge Balance	92.6% 99.5% 98.9%
Metabolite Connectivity	100.0% 99.7% 100.0%
Unbounded Flux In Default Medium	0.0% 0.0% 0.0%
Sub Total	84% 71% 85%
Annotation - Metabolites	
Oursell Models	iBb1018.x iBsu1103. iYO844.
Compared Models	ml xml ml
Presence of Metabolite Annotation Metabolite Annotations Per Database	100.0% 0.0% 100.0%
pubchem.compound	0.0% 0.0% 0.0%
kegg.compound	67.5% 0.0% 79.7%
seed.compound	72.8% 0.0% 90.1%
inchikey	68.9% 0.0% 0.0%
inchi chebi	0.0% 0.0% 0.0% 70.9% 0.0% 87.9%
hmdb	53.3% 0.0% 64.9%
reactome	35.6% 0.0% 0.0%
metanetx.chemical	76.0% 0.0% 100.0%
bigg.metabolite	100.0% 0.0% 100.0% 69.2% 0.0% 81.5%
biocyc Metabolite Annotation Conformity Per Database	69.2% 0.0% 81.5%
pubchem.compound	0.0% 0.0% 0.0%
kegg.compound	100.0% 0.0% 100.0%
seed.compound	100.0% 0.0% 100.0%
inchikey	100.0% 0.0% 0.0%
inchi chebi	0.0% 0.0% 0.0% 100.0% 0.0% 100.0%
hmdb	100.0% 0.0% 100.0%
reactome	100.0% 0.0% 0.0%
metanetx.chemical	100.0% 0.0% 100.0%
bigg.metabolite	100.0% 0.0% 100.0%
biocyc Uniform Metabolite Identifier Namespace	100.0% 0.0% 100.0% 100.0% 100.0% 100.0%
Presence of Reaction Annotation Reaction Annotations Per Database	100.0% 12.7% 100.0%
rhea	43.5% 0.0% 50.8%
kegg.reaction	36.8% 0.0% 40.7%
seed.reaction	64.2% 0.0% 78.5%
metanetx.reaction bigg.reaction	74.4% 0.0% 100.0% 100.0% 0.0% 100.0%
reactome	14.2% 0.0% 0.0%
ec-code	44.7% 0.0% 50.7%
brenda	0.0% 0.0% 0.0%
biocyc Reaction Annotation Conformity Per Database	42.5% 0.0% 48.9% Info
rhea	98.2% 0.0% 97.9%
kegg.reaction	100.0% 0.0% 100.0%
seed.reaction	100.0% 0.0% 100.0%
	100.0% 0.0% 100.0%
metanetx.reaction	100.0% 0.0% 100.0% 100.0% 0.0% 0.0%
metanetx.reaction bigg.reaction reactome	
bigg.reaction	97.8% 0.0% 98.3%
bigg.reaction reactome ec-code brenda	0.0% 0.0% 0.0%
bigg.reaction reactome ec-code brenda biocyc	0.0% 0.0% 0.0% 100.0% 0.0% 100.0%
bigg.reaction reactome ec-code brenda biocyc	0.0% 0.0% 0.0%
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace	0.0% 0.0% 0.0% 100.0% 0.0% 100.0%
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% iBb1018.x iBsu1103. iYO844.x
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models	0.0% 0.0% 0.0% 100.0% 0.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82%
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% iBb1018.x iBsu1103. iYO844.x ml
bigg.reaction reactome ec-code brenda	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% Info
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82% 82% 82% 18b1018.x iBsu1103. iY0844.x ml xml 100.0% 0.0% 100.0% Info 98.8% 0.0% 0.0% 0.0% 97.9% 0.0% 0.0% 0.0% 0.0%
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes	0.0% 0.0% 0.0% 100.0% 1
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82% 82% 82% 18b1018.x iBsu1103. iY0844.x ml xml 100.0% 0.0% 100.0% Info 98.8% 0.0% 0.0% 0.0% 97.9% 0.0% 0.0% 0.0% 0.0%
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82% 82% 82% 100.0% 10
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82% 82% 82% 100.0% 10
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd	0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82% iBb1018.x iBsu1103. iYO8443. ml 100.0% 0.0% 100.0% Info 98.8% 0.0% 0.0% 97.9% 0.0% 0.0% 92.7% 0.0% 0.0% 92.7% 0.0% 0.0% 98.8% 0.0% 0.0% 98.8% 0.0% 0.0% 98.8% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82% 82% 82% 82% 100.0
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database	0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82% iBb1018.x iBsu1103. iYO844.x ml 100.0% 0.0% 100.0% Info 98.8% 0.0% 0.0% 97.9% 0.0% 0.0% 97.9% 0.0% 0.0% 92.7% 0.0% 0.0% 92.7% 0.0% 0.0% 98.8% 0.0% 0.0% 98.8% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82% 82% 82% 82% 100.0
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq	0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82% 82% 82% 100.0% 10
bigg.reaction reactome ec-code brenda biocyc Uniform Reaction Identifier Namespace Sub Total Annotation - Genes Compared Models Presence of Gene Annotation Gene Annotations Per Database refseq uniprot ecogene kegg.genes ncbigi ncbigene ncbiprotein ccds hprd asap Gene Annotation Conformity Per Database refseq uniprot	0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 84% 28% 82% iBb1018.x iBsu1103. iYO844.xml ml xml ml 100.0% 0.0% 100.0% Info 98.8% 0.0% 0.0% 0.0% 97.9% 0.0% 0.0% 0.0% 92.7% 0.0% 0.0% 0.0% 75.0% 0.0% 0.0% 99.6% 98.8% 0.0% 0.0% 0.0% 98.8% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Info

SBML		
compared Models	iBb1018.x iBsu1103. iYO84 ml xml ml	
BML Level and Version	SBML SBML SBML Level 3 Level 2 Level 3	
BC enabled	Version 1 Version 1 Version true false true	1
da cia Information		_
Pasic Information	iBb1018.x iBsu1103. iY084	4.x
ompared Models	ml xml ml	
fodel Identifier	VCorrecte d	
otal Metabolites otal Reactions	1,291 1,625 990 1,580 1,925 1,250	
otal Genes	1,020 1,109 844	
otal Compartments	2 2 2	
letabolic Coverage Incoserved Metabolites	1.55 1.74 1.48 0 0 0	
finimal Inconsistent Net Stoichiometries	0 0 0	
Metabolite Information		
ompared Models	iBb1018.x iBsu1103. iYO84 ml xml ml	
nique Metabolites	1,291 1,625 779	
uplicate Metabolites in Identical Compartments	1 0 0	
Metabolites without Charge Metabolites without Formula	0 0 0 0 1,625 0	
fedium Components	21 244 13	
Reaction Information		
compared Models	iBb1018.x iBsu1103. iYO84	4.x
urely Metabolic Reactions	ml xml ml	
urely Metabolic Reactions with Constraints	2 0 3	
ransport Reactions ransport Reactions with Constraints	260 0 251 1 0 1	
teactions With Partially Identical Annotations	0.03 0.00 0.03	
uplicate Reactions teactions With Identical Genes	1.00 0.00 0.00 0.56 0.50 0.38	
edulois with identical delies	0.30 0.30	
Gene-Protein-Reaction (GPR) Associations		
ompared Models	iBb1018.x iBsu1103. iYO84 ml xml ml	
teactions without GPR	1 244 117 0.00 1.00 0.31	
raction of Transport Reactions without GPR	0.00 1.00 0.31 196 199 138	
Biomass		
compared Models	iBb1018.x iBsu1103. iYO84 ml xml ml	4.x
iomass Reactions Identified	3 1 1	
iomass Consistency	In	fo
bio00006 BIOMASS_BS_10	1.04	
iomass Production In Default Medium	In	fo
BiomassRepsol	0.00	
BiomassRepsolPrueba BiomassRepsolRed	0.69	
bio00006	415.29	
BIOMASS_BS_10	0.12	
nrealistic Growth Rate In Default Medium BiomassRepsol	In	fo
BiomassRepsolPrueba	false	
BiomassRepsolRed	false	
bio00006 BIOMASS_BS_10	true	
	In	fo
iomass Production In Complete Medium	0.00	
BiomassRepsol		
•	80.76 80.76	_
BiomassRepsol BiomassRepsolPrueba		
BiomassRepsol BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10	80.76 415.29 157.95	4.
BiomassRepsol BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10	80.76 415.29 157.95	fo
BiomassRepsol BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium	80.76 415.29 157.95 In	fo
BiomassRepsol BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium BiomassRepsol BiomassRepsolPrueba BiomassRepsolRed	80.76 415.29 157.95 In 2 0	fo
BiomassRepsol BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium BiomassRepsol BiomassRepsolPrueba	80.76 415.29 157.95 In 2	fo
BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10	80.76 415.29 157.95 In 2 0	
BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium BiomassRepsol BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Complete Medium	80.76 415.29 157.95 In 2 0 1 1 0 In	
BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Complete Medium	80.76 415.29 157.95 In 2 0 1 0 In	
BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Complete Medium BiomassRepsolRed biomassRepsolRed biomassRepsolRed biomassRepsolRed biomassRepsolRed biomassRepsol	80.76 415.29 157.95 In 2 0 1 0 In 2 0 1 1 0 In	
BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Complete Medium BiomassRepsolPrueba BiomassRepsolBed biomassRepsolPrueba BiomassRepsolBed biomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10	80.76 415.29 157.95 In 2 0 0 1 0 In 2 0 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0	of fo
BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Complete Medium BiomassRepsolPrueba BiomassRepsolBed biomassRepsolPrueba BiomassRepsolBed biomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10	80.76 415.29 157.95 In 2 0 1 0 In 2 0 1 1 0 In	of fo
BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Complete Medium BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 atio of Direct Metabolites in Biomass Reaction	80.76 415.29 157.95 In 2 0 0 1 1 0 In 2 1 0 In	of fo
BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Default Medium BiomassRepsol BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 locked Biomass Precursors In Complete Medium BiomassRepsolPrueba	80.76 415.29 157.95 In 2 0 0 1 0 In 2 0 In 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	of fo
BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 Iocked Biomass Precursors In Default Medium BiomassRepsolPrueba BiomassRepsolPrueba BiomassRepsolRed bio00006 BIOMASS_BS_10 Iocked Biomass Precursors In Complete Medium BiomassRepsolPrueba	80.76 415.29 157.95 In 2 0 0 1 0 In 2 0 In 0 0 1 0 In 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	of fo



				30	`
BIOMASS_BS_10				6	\
Energy Metabolism					
Compared Models	iBb	1018.x ml	iBsu1103. xml	iYO844.x ml	
Non-Growth Associated Maintenance Reaction		1	1	1	~
Growth-associated Maintenance in Biomass Reaction				Info	~
BiomassRepsol				false	~
BiomassRepsolPrueba				false	~
BiomassRepsolRed				false	~
bio00006				false	~
BIOMASS_BS_10				true	~
Number of Reversible Oxygen-Containing Reactions		3	13	3	~
	iBb	1018.x ml		iYO844.x ml	
Network Topology Compared Models	iBb				
,	iBb	1018.x ml	iBsu1103. xml	iYO844.x ml	~
Compared Models Universally Blocked Reactions Orphan Metabolites					~
Compared Models Universally Blocked Reactions Orphan Metabolites Dead-end Metabolites		ml	xml	ml	\ \ \
Compared Models Universally Blocked Reactions Orphan Metabolites Dead-end Metabolites Stoichiometrically Balanced Cycles		ml 9	xml 58	ml 49	·
Compared Models Universally Blocked Reactions Orphan Metabolites Dead-end Metabolites		ml 9	xml 58	ml 49	
Compared Models Universally Blocked Reactions Orphan Metabolites Dead-end Metabolites Stoichiometrically Balanced Cycles Metabolite Production In Complete Medium		ml 9	xml 58	ml 49	·
Compared Models Universally Blocked Reactions Orphan Metabolites Dead-end Metabolites Stoichiometrically Balanced Cycles Metabolite Production In Complete Medium Metabolite Consumption In Complete Medium	9	ml 9 3	xml 58	ml 49	·
Compared Models Universally Blocked Reactions Orphan Metabolites Dead-end Metabolites Stoichiometrically Balanced Cycles Metabolite Production In Complete Medium Metabolite Consumption In Complete Medium Matrix Conditioning	iBŁ	ml 99 33 1018.x	xml 58 96	ml 49 122 iYO844.x	·
Compared Models Universally Blocked Reactions Orphan Metabolites Dead-end Metabolites Stoichiometrically Balanced Cycles Metabolite Production In Complete Medium Metabolite Consumption In Complete Medium Matrix Conditioning Compared Models	iBL	ml 9 3 1018.x ml	58 96 iBsu1103. xml	iYO844.x	·
Compared Models Universally Blocked Reactions Orphan Metabolites Dead-end Metabolites Stoichiometrically Balanced Cycles Metabolite Production In Complete Medium Metabolite Consumption In Complete Medium Matrix Conditioning Compared Models Ratio Min/Max Non-Zero Coefficients	iBt	1018.x ml	58 96 iBsu1103. xml	ml 49 122 iYO844.x ml 0.00	~