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Independent Section

Contains tests that are independent of the class of modeled organism, a model's

Consistency

Stoichiometric Consistency	99.0%	x3
Mass Balance	95.7%	
Charge Balance	100.0%	
Metabolite Connectivity	98.2%	
Unbounded Flux In Default Medium	83.8%	

Sub Total 96% x3

Annotation - Metabolites

Presence of Metabolite Annotation	84.3%	
Metabolite Annotations Per Database		Info

pubchem.compound	0.0%	
kegg.compound	54.1%	
seed.compound	0.0%	
inchikey	0.0%	
inchi	46.5%	
chebi	80.7%	
hmdb	0.1%	
reactome	0.0%	
metanetx.chemical	0.5%	
bigg.metabolite	0.0%	
biocyc	0.0%	

Metabolite Annotation Conformity Per Database		Info
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pubchem.compound	0.0%	
kegg.compound	100.0%	
seed.compound	0.0%	
inchikey	0.0%	

Specific Section

Covers general statistics and specific aspects of a metabolic network that are not universally

SBML

SBML Level and Version	Errored	
FBC enabled	Errored	

Basic Information

Model Identifier		
Total Metabolites	1,818	
Total Reactions	2,320	
Total Genes	1,325	
Total Compartments	7	
Metabolic Coverage	1.75	

Metabolite Information

Unique Metabolites	1,818	
Duplicate Metabolites in Identical Compartments	6	
Metabolites without Charge	0	
Metabolites without Formula	0	
Medium Components	8	

Reaction Information

Purely Metabolic Reactions	1,499	
Purely Metabolic Reactions with Constraints	1	
Transport Reactions	435	
Transport Reactions with Constraints	1	
Thermodynamic Reversibility of Purely Metabolic Reactions	0.40	
Reactions With Partially Identical Annotations	0.00	

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hmdb	100.0%	▼
reactome	0.0%	▼
metanetx.chemical	100.0%	▼
bigg.metabolite	0.0%	▼
biocyc	0.0%	▼
Uniform Metabolite Identifier Namespace	100.0%	▼
<hr/>		
Sub Total	62%	▼

Annotation - Reactions

Presence of Reaction Annotation	53.4%	▼
Reaction Annotations Per Database	Info	▼
rhea	0.3%	▼
kegg.reaction	0.0%	▼
seed.reaction	0.0%	▼
metanetx.reaction	0.0%	▼
bigg.reaction	0.0%	▼
reactome	0.0%	▼
ec-code	53.4%	▼
brenda	0.0%	▼
biocyc	0.0%	▼
Reaction Annotation Conformity Per Database	Info	▼
rhea	100.0%	▼
kegg.reaction	100.0%	▼
seed.reaction	0.0%	▼
metanetx.reaction	0.0%	▼
bigg.reaction	0.0%	▼
reactome	0.0%	▼
ec-code	100.0%	▼
brenda	0.0%	▼
biocyc	0.0%	▼
Uniform Reaction Identifier Namespace	100.0%	▼

Gene-Protein-Reaction (GPR) Associations

Reactions without GPR	604	▼
Fraction of Transport Reactions without GPR	0.75	▼
Enzyme Complexes	0	▼

Biomass

Biomass Reactions Identified	1	▼
Biomass Consistency	0.00	▼
Biomass Production In Default Medium	0.94	▼
Unrealistic Growth Rate In Default Medium	false	▼
Biomass Production In Complete Medium	87.43	▼
Blocked Biomass Precursors In Default Medium	0	▼
Blocked Biomass Precursors In Complete Medium	0	▼
Ratio of Direct Metabolites in Biomass Reaction	0.29	▼
Number of Missing Essential Biomass Precursors	7	▼

Energy Metabolism

Non-Growth Associated Maintenance Reaction	Errored	▼
Growth-associated Maintenance in Biomass Reaction	false	▼
Number of Reversible Oxygen-Containing Reactions	5	▼
Erroneous Energy-generating Cycles	Info	▼
MNXM3	Skipped	▼

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Annotation - Genes

Presence of Gene Annotation	0.0%	▼
Gene Annotations Per Database	Info	▼
refseq	0.0%	▼
uniprot	0.0%	▼
ecogene	0.0%	▼
kegg.genes	0.0%	▼
ncbigi	0.0%	▼
ncbigene	0.0%	▼
ncbiprotein	0.0%	▼
ccds	0.0%	▼
hprd	0.0%	▼
asap	0.0%	▼
Gene Annotation Conformity Per Database	Info	▼
refseq	0.0%	▼
uniprot	0.0%	▼
ecogene	0.0%	▼
kegg.genes	0.0%	▼
ncbigi	0.0%	▼
ncbigene	0.0%	▼
ncbiprotein	0.0%	▼
ccds	0.0%	▼
hprd	0.0%	▼
asap	0.0%	▼

Sub Total	0%	▼
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Annotation - SBO Terms

Metabolite General SBO Presence	0.0%	▼
Metabolite SBO:0000247 Presence	0.0%	▼
Reaction General SBO Presence	0.0%	▼
Metabolic Reaction	0.0%	▼

MNXM121	Skipped	▼
MNXM423	Skipped	▼
MNXM6	Skipped	▼
MNXM10	Skipped	▼
MNXM38	Skipped	▼
MNXM208	Skipped	▼
MNXM191	Skipped	▼
MNXM223	Skipped	▼
MNXM7517	Skipped	▼
MNXM12233	Skipped	▼
MNXM558	Skipped	▼
MNXM21	Skipped	▼
MNXM89557	Skipped	▼

Network Topology

Universally Blocked Reactions	372	▼
Orphan Metabolites	65	▼
Dead-end Metabolites	88	▼
Stoichiometrically Balanced Cycles	138	▼
Metabolite Production In Complete Medium	352	▼
Metabolite Consumption In Complete Medium	675	▼

Matrix Conditioning

Ratio Min/Max Non-Zero Coefficients	0.00	▼
Independent Conservation Relations	102	▼
Rank	1716	▼
Degrees Of Freedom	604	▼

Experimental Data Comparison



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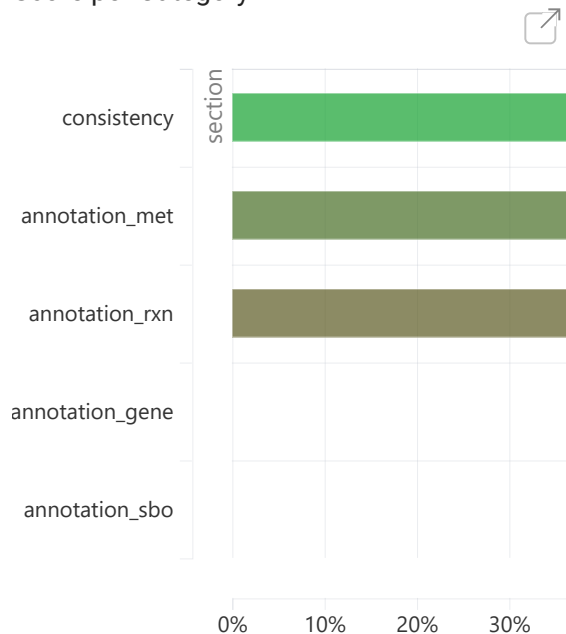


Exchange Reaction	0.0%	▼
SBO:0000627 Presence	0.0%	▼
Demand Reaction	0.0%	▼
SBO:0000628 Presence	0.0%	▼
Sink Reactions	Skipped	▼
SBO:0000632 Presence	0.0%	▼
Gene General SBO	0.0%	▼
Presence	0.0%	▼
Gene SBO:0000243	0.0%	▼
Presence	0.0%	▼
Biomass Reactions	0.0%	▼
SBO:0000629 Presence	0.0%	▼
<hr/>		
Sub Total	0%	▼
<hr/>		
Total Score	46%	▼

Total Score

46%

Score per Category



Prediction

Misc. Tests

Environment

Python Version	3.6.12
Platform	Linux
Memote Version	0.11.1