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Independent Section

Contains tests that are independent of the class of modeled organism, a model's complexity or types of identifiers that are used to describe its components

Consistency

Stoichiometric Consistency	100.0%	X3
Mass Balance	94.1%	
Charge Balance	32.5%	
Metabolite Connectivity	100.0%	
Unbounded Flux In Default Medium	0.0%	
Sub Total	75%	X3

Annotation - Metabolites

Presence of Metabolite Annotation	0.0%
Metabolite Annotations Per Database	Info
pubchem.compound	0.0%
kegg.compound	0.0%
seed.compound	0.0%
inchikey	0.0%
inchi	0.0%
chebi	0.0%
hmdb	0.0%
reactome	0.0%
metanetx.chemical	0.0%
bigg.metabolite	0.0%
biocyc	0.0%
Metabolite Annotation Conformity Per Database	Info
pubchem.compound	0.0%
kegg.compound	0.0%
seed.compound	0.0%
inchikey	0.0%
inchi	0.0%
chebi	0.0%
hmdb	0.0%
reactome	0.0%
metanetx.chemical	0.0%
bigg.metabolite	0.0%

Specific Section

Covers general statistics and specific aspects of a metabolic network that are not universally applicable. See readme for more details

SBML

SBML Level and Version	Errored
FBC enabled	Errored

Basic Information

Model Identifier	sbml_model
Total Metabolites	510
Total Reactions	424
Total Genes	364
Total Compartments	2
Metabolic Coverage	1.16

Metabolite Information

Unique Metabolites	510
Duplicate Metabolites in Identical Compartments	0
Metabolites without Charge	174
Metabolites without Formula	0
Medium Components	0

Reaction Information

Purely Metabolic Reactions	374
Purely Metabolic Reactions with Constraints	11
Transport Reactions	50
Transport Reactions with Constraints	2
Thermodynamic Reversibility of Purely Metabolic Reactions	1.00
Reactions With Partially Identical Annotations	0.00
Duplicate Reactions	0.00
Reactions With Identical Genes	0.45

Gene-Protein-Reaction (GPR) Associations

Reactions without GPR	0

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Namespace	100.0%
Sub Total	25%

Annotation - Reactions

Presence of Reaction Annotation	0.0%
Reaction Annotations Per Database	Info
rhea	0.0%
kegg.reaction	0.0%
seed.reaction	0.0%
metanetx.reaction	0.0%
bigg.reaction	0.0%
reactome	0.0%
ec-code	0.0%
brenda	0.0%
biocyc	0.0%
Reaction Annotation Conformity Per Database	Info
rhea	0.0%
kegg.reaction	0.0%
seed.reaction	0.0%
metanetx.reaction	0.0%
bigg.reaction	0.0%
reactome	0.0%
ec-code	0.0%
brenda	0.0%
biocyc	0.0%
Uniform Reaction Identifier Namespace	100.0%
Sub Total	25%

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%

Biomass

Biomass Reactions Identified	0
Biomass Consistency	Skippe
Biomass Production In Default Medium	Skippe
Unrealistic Growth Rate In Default Medium	Skippe
Biomass Production In Complete Medium	Skippe
Blocked Biomass Precursors In Default Medium	Skippe
Blocked Biomass Precursors In Complete Medium	Skippe
Ratio of Direct Metabolites in Biomass Reaction	Skippe
Number of Missing Essential Biomass Precursors	Skippe

Energy Metabolism

Non-Growth Associated Maintenance Reaction	Errored
Growth-associated Maintenance in Biomass Reaction	Skipped
Number of Reversible Oxygen-Containing Reactions	1
Erroneous Energy-generating Cycles	Info
MNXM3	Skipped
MNXM63	Skipped
MNXM51	Skipped
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	406

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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%

Annotation - SBO Terms

Metabolite General SBO Presence	0.0%
Metabolite SBO:0000247 Presence	0.0%
Reaction General SBO Presence	0.0%
Metabolic Reaction SBO:0000176 Presence	0.0%
Transport Reaction SBO:0000185 Presence	0.0%
Exchange Reaction SBO:0000627 Presence	Skipped
Demand Reaction SBO:0000628 Presence	Skipped
Sink Reactions SBO:0000632 Presence	Skipped
Gene General SBO Presence	0.0%
Gene SBO:0000243 Presence	0.0%
Biomass Reactions SBO:0000629 Presence	Skipped
Sub Total	0% X2
Total Score	33%

Total Score

33%

Score per Category

Stoichiometrically Balanced Cycles	21
Metabolite Production In Complete Medium	510
Metabolite Consumption In Complete Medium	510

Matrix Conditioning

Ratio Min/Max Non-Zero Coefficients	0.00
Independent Conservation Relations	115
Rank	395
Degrees Of Freedom	29

Experimental Data Comparison

Growth Prediction	Skipped
Gene Essentiality Prediction	Skipped

Misc. Tests

Environment

Python Version	3.6.8
Platform	Linux
Memote Version	0.9.11

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