# Independent Section

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

## Consistency

**Stoichiometric Consistency** 

Mass Balance

**Charge Balance** 

**Metabolite Connectivity** 

**Unbounded Flux In Default Medium** 

Sub Total

### **Annotation - Metabolites**

**Presence of Metabolite Annotation** 

Metabolite Annotations Per Database

pubchem.compound

kegg.compound

seed.compound

inchikey

inchi

chebi

hmdb

reactome

metanetx.chemical

bigg.metabolite

biocyc

Metabolite Annotation Conformity Per **Database** 

pubchem.compound

kegg.compound

seed.compound

inchikey

inchi

chebi

hmdb

**Specific Section** 

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

**SBML** 

SBML Level and Version Errored

**FBC** enabled **Errored** 

**Basic Information** 

Model Identifier	odelGrow th	~
Total Metabolites	1,114	~
Total Reactions	1,149	~
Total Genes	535	~
<b>Total Compartments</b>	3	~
Metabolic Coverage	2.15	~
<b>Uncoserved Metabolites</b>	0	~
Minimal Inconsistent Net	Skinned	• 4

Chemol/

Skipped

**Metabolite Information** 

**Stoichiometries** 

Unique Metabolites	818	~
Duplicate Metabolites in Identical Compartments	0	~
Metabolites without Charge	0	~
Metabolites without Formula	0	~
Medium Components	22	~

**Reaction Information** 

Purely Metabolic Reactions	760	~
Purely Metabolic Reactions with Constraints	2	~
Transport Reactions	275	~
Transport Reactions with Constraints Reactions With Partially	0	<b>~</b>

bigg.metabolite	Genes	0.59	~
biocyc			
Uniform Metabolite Identifier Namespace	Gene-Protein-R (GPR) Association		
Sub Total	,		
	Reactions without GPR	69	~
Annotation - Reactions	Fraction of Transport Reactions without GPR	0.15	~
Presence of Reaction Annotation	Enzyme Complexes	131	~
Reaction Annotations Per Database			
rhea	Biomass		
kegg.reaction	Biomass Reactions	1	<b>\</b>
seed.reaction	Identified	0.05	•
metanetx.reaction	Biomass Consistency Biomass Production In	0.95	~
bigg.reaction	Default Medium	0.09	~
reactome	Unrealistic Growth Rate	false	_
ec-code	In Default Medium Biomass Production In		
brenda	Complete Medium	57.25	~
	Blocked Biomass	0	
biocyc	Precursors In Default Medium	O	~
Reaction Annotation Conformity Per Databas	2.00.100. 2.0	0	
rhea	Precursors In Complete Medium	0	~
kegg.reaction	Ratio of Direct		
seed.reaction	Metabolites in Biomass Reaction	0.11	~
metanetx.reaction	Number of Missing		
bigg.reaction	Essential Biomass	1	~
reactome	Precursors		
ec-code	Taran Madalahat	•	
brenda	Energy Metabol	ısm	
biocyc	Non-Growth Associated	1	~
Uniform Reaction Identifier Namespace	Maintenance Reaction Growth-associated		
- Tames and the state of the st	Maintenance in Biomass	true	~
Sub Total	Reaction Number of Reversible		
	Oxygen-Containing	3	~
Annotation - Genes	Reactions		
Presence of Gene Annotation	Erroneous Energy- generating Cycles	Info	~
	MNXM3	Skipped	~
Gene Annotations Per Database		Skipped	

rofcoa

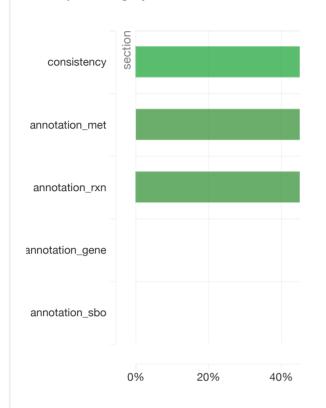
ecogene	MNXM423	Skipped	~
kegg.genes	MNXM6	Skipped	<b>~</b>
ncbigi	MNXM10	Skipped	~
ncbigene	MNXM38	Skipped	~
ncbiprotein	MNXM208	Skipped	<b>~</b>
ccds	MNXM191	Skipped	<b>~</b>
hprd	MNXM223	Skipped	<b>~</b>
asap	MNXM7517	Skipped	<b>~</b>
Gene Annotation Conformity Per Database	MNXM12233	Skipped	~
refseq	MNXM558	Skipped	~
uniprot	MNXM21	Skipped	~
ecogene	MNXM89557	Skipped	~
kegg.genes			
ncbigi	Network Topolo	gy	
ncbigene	Universally Blocked Reactions	481	<b>~</b>
ncbiprotein	Orphan Metabolites	168	
ccds	Dead-end Metabolites	157	v
hprd	Stoichiometrically	41	•
asap	Balanced Cycles Metabolite Production In	71	~
acap	Complete Medium	502	~
Sub Total	Metabolite Consumption In Complete Medium	518	~
Annotation - SBO Terms	•		
Metabolite General SBO Presence	Matrix Condition	ning	
Metabolite SBO:0000247 Presence	Ratio Min/Max Non-Zero	0.00	
Reaction General SBO Presence	Coefficients Independent	100	Ť
Metabolic Reaction SBO:0000176 Presence	Conservation Relations	128	~
Transport Reaction SBO:0000185 Presence	Rank	986	~
Exchange Reaction SBO:0000627 Presence	Degrees Of Freedom	163	~
Demand Reaction SBO:0000628 Presence			
Sink Reactions SBO:0000632 Presence	Experimental Da	ata	
Gene General SBO Presence	Comparison		
Gene SBO:0000243 Presence	Growth Prediction	Skipped	A -
	AIOWIII FIEUICIIOII	Chipped	~

ChemoModelGrowth Expand All

Readme

2022-06-21 08:05

#### Score per Category



#### Environment

Python Version Platform Memote Version

Linux 0.13.0

3.8.12