

Independent Section



iNlan20

Expand All

Readme

2020-11-25 10:41



Consistency

Stoichiometric Consistency	100.0%		▼
Mass Balance	100.0%		▼
Charge Balance	100.0%		▼
Metabolite Connectivity	100.0%		▼
Unbounded Flux In Default Medium	87.7%		▼
<hr/>			
Sub Total	98%		▼

Annotation - Metabolites

Presence of Metabolite Annotation	100.0%	▼
Metabolite Annotations Per Database	Info	▼
pubchem.compound	0.0%	▼
kegg.compound	84.6%	▼
seed.compound	87.7%	▼
inchikey	77.7%	▼
inchi	0.6%	▼
chebi	85.4%	▼
hmdb	0.0%	▼
reactome	54.2%	▼
metanetx.chemical	96.1%	▼
bigg.metabolite	97.8%	▼
biocyc	83.9%	▼
Metabolite Annotation Conformity Per Database	Info	▼
pubchem.compound	0.0%	▼
kegg.compound	99.6%	▼
seed.compound	100.0%	▼
inchikey	100.0%	▼
inchi	0.0%	▼
chebi	100.0%	▼
hmdb	0.0%	▼
reactome	100.0%	▼

metanetx.chemical	100.0%	▼
bigg.metabolite	100.0%	▼
biocyc	100.0%	▼
Uniform Metabolite Identifier Namespace	100.0%	▼

Sub Total	83%	▼
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Annotation - Reactions

Presence of Reaction Annotation	100.0%	▼
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Reaction Annotations Per Database	Info	▼
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rhea	51.9%	▼
kegg.reaction	52.4%	▼
seed.reaction	72.2%	▼
metanetx.reaction	90.4%	▼
bigg.reaction	94.6%	▼
reactome	20.4%	▼
ec-code	73.3%	▼
brenda	0.0%	▼
biocyc	53.6%	▼

Reaction Annotation Conformity Per Database	Info	▼
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rhea	99.6%	▼
kegg.reaction	99.8%	▼
seed.reaction	100.0%	▼
metanetx.reaction	100.0%	▼
bigg.reaction	100.0%	▼
reactome	100.0%	▼
ec-code	97.4%	▼
brenda	0.0%	▼
biocyc	100.0%	▼

Uniform Reaction Identifier Namespace	100.0%	▼
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Sub Total	86%	▼
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Annotation - Genes

Presence of Gene Annotation	100.0%	▼
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Gene Annotations Per Database	Info	▼
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refseq	0.0%	▼
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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		▼
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		33% ▼

Annotation - SBO Terms

Metabolite General SBO Presence	100.0%	▼
Metabolite SBO:0000247 Presence	100.0%	▼
Reaction General SBO Presence	100.0%	▼
Metabolic Reaction SBO:0000176 Presence	100.0%	▼
Transport Reaction SBO:0000185 Presence	100.0%	▼
Exchange Reaction SBO:0000627 Presence	100.0%	▼
Demand Reaction SBO:0000628 Presence	100.0%	▼
Sink Reactions SBO:0000632 Presence	100.0%	▼
Gene General SBO Presence	100.0%	▼
Gene SBO:0000243 Presence	100.0%	▼
Biomass Reactions SBO:0000629 Presence	100.0%	▼

Sub Total

100%



Total Score

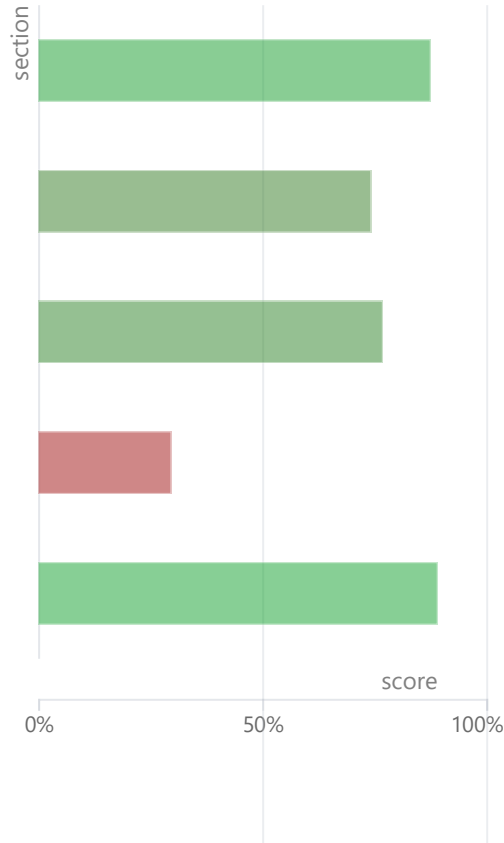
93%



Total Score

93%

Score per Category



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

SBML
Level 3
Version 1



FBC enabled

true



Basic Information

Model Identifier	iNlan20	▼
Total Metabolites	816	▼
Total Reactions	1,023	▼
Total Genes	1,018	▼
Total Compartments	3	▼
Metabolic Coverage	1.00	▼
Uncoserved Metabolites	0	▼
Minimal Inconsistent Net Stoichiometries	0	▼

Metabolite Information

Unique Metabolites	701	▼
Duplicate Metabolites in Identical Compartments	0	▼
Metabolites without Charge	0	▼
Metabolites without Formula	0	▼
Medium Components	17	▼

Reaction Information

Purely Metabolic Reactions	791	▼
Purely Metabolic Reactions with Constraints	19	▼
Transport Reactions	128	▼
Transport Reactions with Constraints	15	▼
Reactions With Partially Identical Annotations	0.07	▼
Duplicate Reactions	0.00	▼
Reactions With Identical Genes	0.43	▼

Gene-Protein-Reaction (GPR) Associations

Reactions without GPR	216	▼
Fraction of Transport Reactions without GPR	0.83	▼
Enzyme Complexes	0	▼

Biomass

Biomass Reactions Identified	1	▼
Biomass Consistency	1.00	▼
Biomass Production In Default Medium	0.04	▼
Unrealistic Growth Rate In Default Medium	false	▼

Biomass Production In Complete Medium	38.01	▼
Blocked Biomass Precursors In Default Medium	0	▼
Blocked Biomass Precursors In Complete Medium	0	▼
Ratio of Direct Metabolites in Biomass Reaction	0.00	▼
Number of Missing Essential Biomass Precursors	6	▼

Energy Metabolism

Non-Growth Associated Maintenance Reaction	1	▼
Growth-associated Maintenance in Biomass Reaction	true	▼
Number of Reversible Oxygen-Containing Reactions	0	▼
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	304	▼
Orphan Metabolites	63	▼
Dead-end Metabolites	60	▼
Stoichiometrically Balanced Cycles	60	▼
Metabolite Production In Complete Medium	236	▼
Metabolite Consumption In Complete Medium	334	▼

Matrix Conditioning

Ratio Min/Max Non-Zero Coefficients

0.00



Independent Conservation Relations

59



Rank

757



Degrees Of Freedom

266



Experimental Data Comparison

Growth Prediction

Skipped



Gene Essentiality Prediction

Skipped



Misc. Tests

Environment

Python Version

3.8.3

Platform

Windows

Memote Version

0.12.0