

A

```

<?xml version="1.0" encoding="UTF-8"?>
<sbml xmlns="http://www.sbml.org/sbml/level3/version2/core" level="3" version="2"
  xmlns:fbc="http://www.sbml.org/sbml/level3/version1/fbc/version2" fbc:required="false"
  xmlns:comp="http://www.sbml.org/sbml/level3/version1/comp/version1" comp:required="true"
  xmlns:layout="http://www.sbml.org/sbml/level3/version1/layout/version1" layout:required="false" ...>
  <model id="tiny_example" substanceUnits="mmole" timeUnits="second" volumeUnits="litre" ...>
    <listOfUnitDefinitions> ... </listOfUnitDefinitions>
    <listOfFunctionDefinitions> ... </listOfFunctionDefinitions>
    <listOfCompartments> ... </listOfCompartments>
    <listOfSpecies> ... </listOfSpecies>
    <listOfParameters> ... </listOfParameters>
    <listOfInitialAssignments> ... </listOfInitialAssignments>
    <listOfRules> ... </listOfRules>
    <listOfConstraints> ... </listOfConstraints>
    <listOfReactions> ... </listOfReactions>
    <listOfEvents> ... </listOfEvents>
    <layout:listOfLayouts xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      <layout:layout layout:id="layout_1" ...>
        <layout:dimensions layout:width="700" layout:height="700" .../>
        <layout:listOfCompartmentGlyphs> ... </layout:listOfCompartmentGlyphs>
        <layout:listOfSpeciesGlyphs> ... </layout:listOfSpeciesGlyphs>
        <layout:listOfReactionGlyphs> ... </layout:listOfReactionGlyphs>
        <layout:listOfTextGlyphs> ... </layout:listOfTextGlyphs>
      </layout:layout>
    </layout:listOfLayouts>
  </model>
</sbml>

```

declaration of packages

units

functions

variables

relationships

core

package

references

B

```

<unitDefinition id="mmole">
  <listOfUnits>
    <unit kind="mole" exponent="1" scale="-3" multiplier="1"/>
  </listOfUnits>
</unitDefinition>
...
<compartment id="c" name="cell compartment" size="1e-05" units="litre" constant="true" ... />
...
<species metaid="meta_glc" id="glc" name="glucose" initialConcentration="5" sboTerm="SB0:0000247"
  compartment="c" substanceUnits="mmole" hasOnlySubstanceUnits="false" boundaryCondition="false"
  constant="false" fbc:charge="0" fbc:chemicalFormula="C6H12O6">
  <annotation>
    ...
    <bqbiol:is>
      <rdf:li rdf:resource="http://identifiers.org/chebi/CHEBI:4167"/>
    </bqbiol:is>
    ...
  </species>
  ...
  <parameter id="Vmax_GK" value="1e-06" sboTerm="SB0:0000186" constant="true" units="mmole_per_s" ...>
  <parameter id="Km_glc" value="0.5" sboTerm="SB0:0000027" constant="true" units="mM" ...>
  ...
  <reaction id="GK" name="Glucokinase" reversible="false" compartment="c" sboTerm="SB0:0000176" ...>
    ...
    <speciesReference species="glc" stoichiometry="1" constant="true"/>
    ...
    <kineticLaw>
      <math xmlns="http://www.w3.org/1998/Math/MathML">
        <apply>
          <times/>
          <ci> Vmax_GK </ci>
          <apply>
            <divide/>
            <ci> glc </ci>
            <apply>
              <plus/>
              <ci> Km_glc </ci>
              <ci> glc </ci>
            </apply>
          </apply>
        </math>
      </kineticLaw>
    </reaction>
    ...
  </model>
</sbml>

```