

**Table 2.** *In vivo*-like medium composition with various anion concentrations. Numbers in bold represent the various anion concentrations tested. The total amount of added magnesium depended on the amount of ATP, ADP, NADP, etc. added to the assay. The amount of sulfate depended on the amount of magnesium added to the assay, because sulfate was used as a counterion for magnesium and calcium.

Component	Option 1 (mM)	Option 2 (mM)	Option 3 (mM)
Potassium	300	300	300
Sodium	20	20	20
Free magnesium	2	2	2
Sulfate	2.5–10	2.5–10	2.5–10
Calcium	0.5	0.5	0.5
Glutamate	<b>75</b>	<b>245</b>	<b>75</b>
Phosphate	<b>163</b>	<b>50</b>	<b>50</b>
Pipes	–	–	<b>120</b>