

**Table S1.** Ingredients and contents of each component in *in vitro* cultivation medium.

Ingredients	Contents
<b>Artificial saliva</b>	
NaHCO <sub>3</sub>	35 g
NH <sub>4</sub> HCO <sub>3</sub>	4 g
Distilled water	Up to 1000 mL
<b>Constant element solution</b>	
Na <sub>2</sub> HPO <sub>4</sub>	5.7 g
KH <sub>2</sub> PO <sub>4</sub>	6.2 g
MgSO <sub>4</sub> 7H <sub>2</sub> O	0.6 g
Distilled water	Up to 1000 mL
<b>Trace element solution</b>	
CaCl <sub>2</sub> ·2H <sub>2</sub> O	132 g
MnCl <sub>2</sub> ·4H <sub>2</sub> O	100 g
CoCl <sub>2</sub> ·6H <sub>2</sub> O	10 g
FeCl <sub>3</sub> ·6H <sub>2</sub> O	80 g
Distilled water	Up to 1000 mL
<b>Resazurin solution</b>	
Resazurin	1 g
Distilled water	Up to 1000 mL
<b>Reducing agent solution</b>	
Na <sub>2</sub> S·9H <sub>2</sub> O	6.25 g
NaOH	1.6 g
Distilled water	Up to 1000 mL