Protocol for preparing the Titanium (III) citrate as oxygen scavenger

Under anaerobic conditions:

• Add 5 ml of a 15% percent titanium (III) chloride solution to 50ml of 0.2M sodium citrate solution

• Neutralize it with a saturated sodium carbonate solution (pH7).

• Autoclave the solution anaerobically

Note:

Redox potential is $-302.4\text{mV}$ at the concentration of $\text{TiCl}_3 \ 5\times 10^{-4}\text{ M}$, and $-403.9\text{mV}$ at $2\times 10^{-3}\text{ M}$

Reference:
