

25 mM Ti(III) NTA solution

Nitrilotriacetic acid	9.60	g
Water (anaerobic)	300.00	ml

To prepare anaerobic water, boil 1.0 L distilled water and cool down under a stream of oxygen-free N_2 gas. Mix components under N_2 gas. Adjust pH to 9.0 with NaOH. Slowly add 9.6 ml of 20% $TiCl_3$ to the chelator solution. Keep the pH above 2.0 by the addition of anaerobic saturated Na_2CO_3 solution. Adjust pH to 7.0 with Na_2CO_3 solution, adjust pH to 7.0 and bring the final volume to 500 ml with the anaerobic water. Filter-sterilize and keep the solution under a N_2 gas atmosphere.