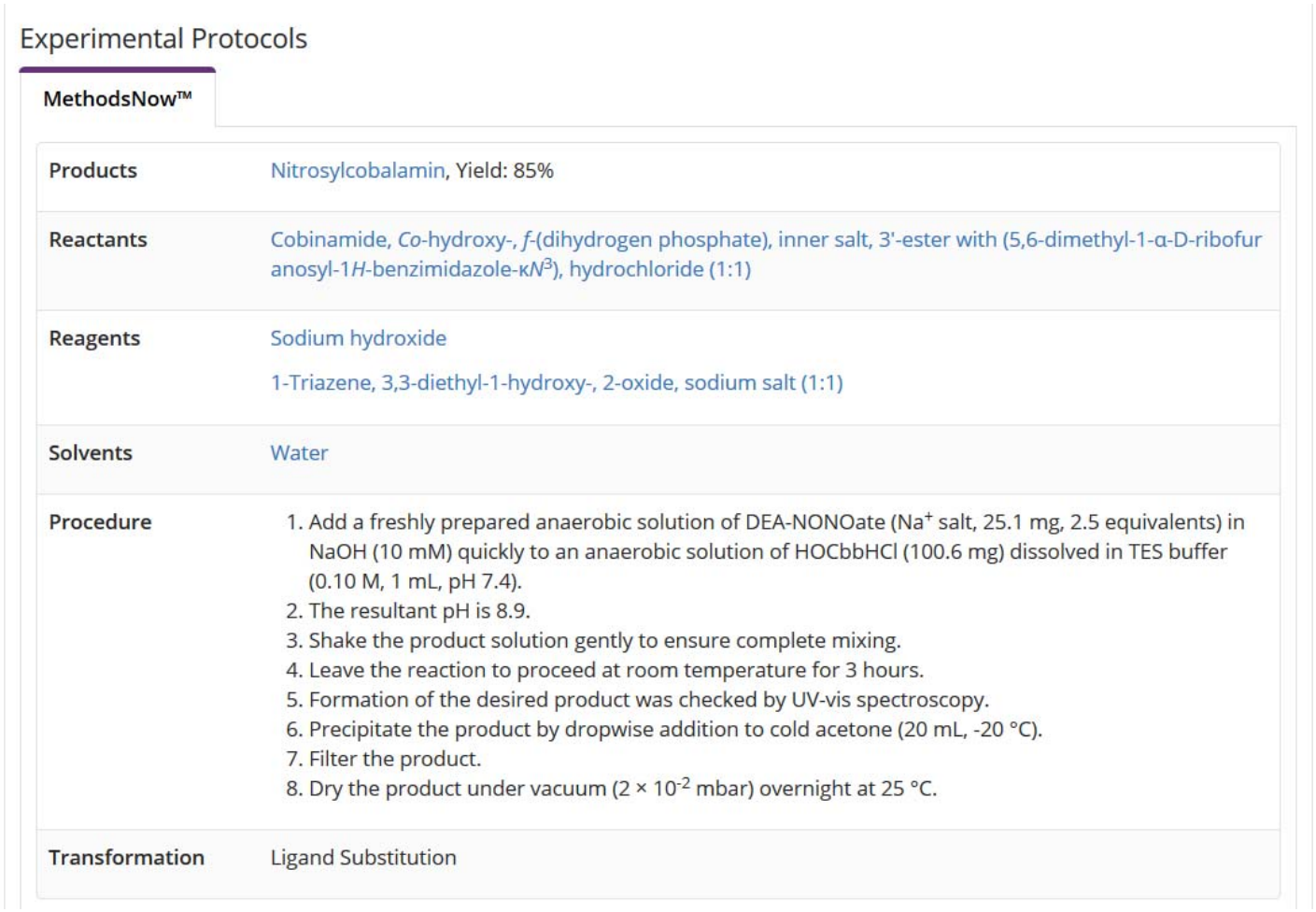
MethodsNow



Experimental Protocols

MethodsNow™

Products	Nitrosylcobalamin, Yield: 85%
Reactants	Cobinamide, *Co*-hydroxy-, *f*-(dihydrogen phosphate), inner salt, 3'-ester with (5,6-dimethyl-1-α-D-ribofuranosyl-1*H*-benzimidazole-κN^3), hydrochloride (1:1)
Reagents	Sodium hydroxide 1-Triazene, 3,3-diethyl-1-hydroxy-, 2-oxide, sodium salt (1:1)
Solvents	Water
Procedure	1. Add a freshly prepared anaerobic solution of DEA-NONOate (Na^+ salt, 25.1 mg, 2.5 equivalents) in NaOH (10 mM) quickly to an anaerobic solution of HOCbbHCl (100.6 mg) dissolved in TES buffer (0.10 M, 1 mL, pH 7.4). 2. The resultant pH is 8.9. 3. Shake the product solution gently to ensure complete mixing. 4. Leave the reaction to proceed at room temperature for 3 hours. 5. Formation of the desired product was checked by UV-vis spectroscopy. 6. Precipitate the product by dropwise addition to cold acetone (20 mL, -20 °C). 7. Filter the product. 8. Dry the product under vacuum (2×10^{-2} mbar) overnight at 25 °C.
Transformation	Ligand Substitution

Under a Reaction View, click «**Experimental Protocols**» (not always available)