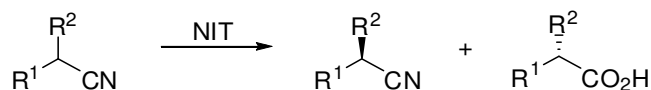


Codex[®] Nitrilase Screening Kit

Screening Protocol

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REACTION OF INTEREST



CODEX[®] NITRILASE SCREENING KIT CONTENTS

Item	Enzyme	Amount
1	NIT-102	250 mg
2	NIT-103	250 mg
3	NIT-104	250 mg
4	NIT-105	250 mg
5	NIT-106	250 mg
6	NIT-111	250 mg
7	NIT-P1-118	250 mg
8	NIT-P1-120	250 mg
9	NIT-P1-121	250 mg
10	NIT-P1-122	250 mg
11	NIT-P1-126	250 mg
12	NIT-P1-130	250 mg
13	NIT-RXN BUFFER (Nitrilase Reaction Buffer Mix)	7.25 g

CODEX[®] NITRILASE SCREENING KIT SCREENING PROCEDURE

1. Reconstitute 0.725 g of the NIT-RXN BUFFER (Nitrilase Reaction Buffer Mix) by adding 80 mL deionized water. Reconstituted buffer contains 50 mM potassium phosphate, 2 mM DTT, 1 mM EDTA, pH7.5.
2. For each NIT enzyme, dissolve 10 mg of nitrile with 5 mL Nitrilase Reaction Buffer Mix. Add 10 mg NIT enzyme to start the reaction. It is OK if the nitrile does not completely dissolve. If the nitrile is very insoluble in water, a solution of the nitrile (in a solvent such as DMSO or methanol) can be added to the reaction mixture. We recommend that the solvent does not exceed 5% of the total volume of the reaction solution for screening purposes.
3. Incubate the reactions with agitation at 30 °C.
4. Assay the reaction mixture at regular intervals over a 24-hour period by any preferred method to monitor the conversion of nitrile to carboxylic acid.

Codexis, Inc.

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