

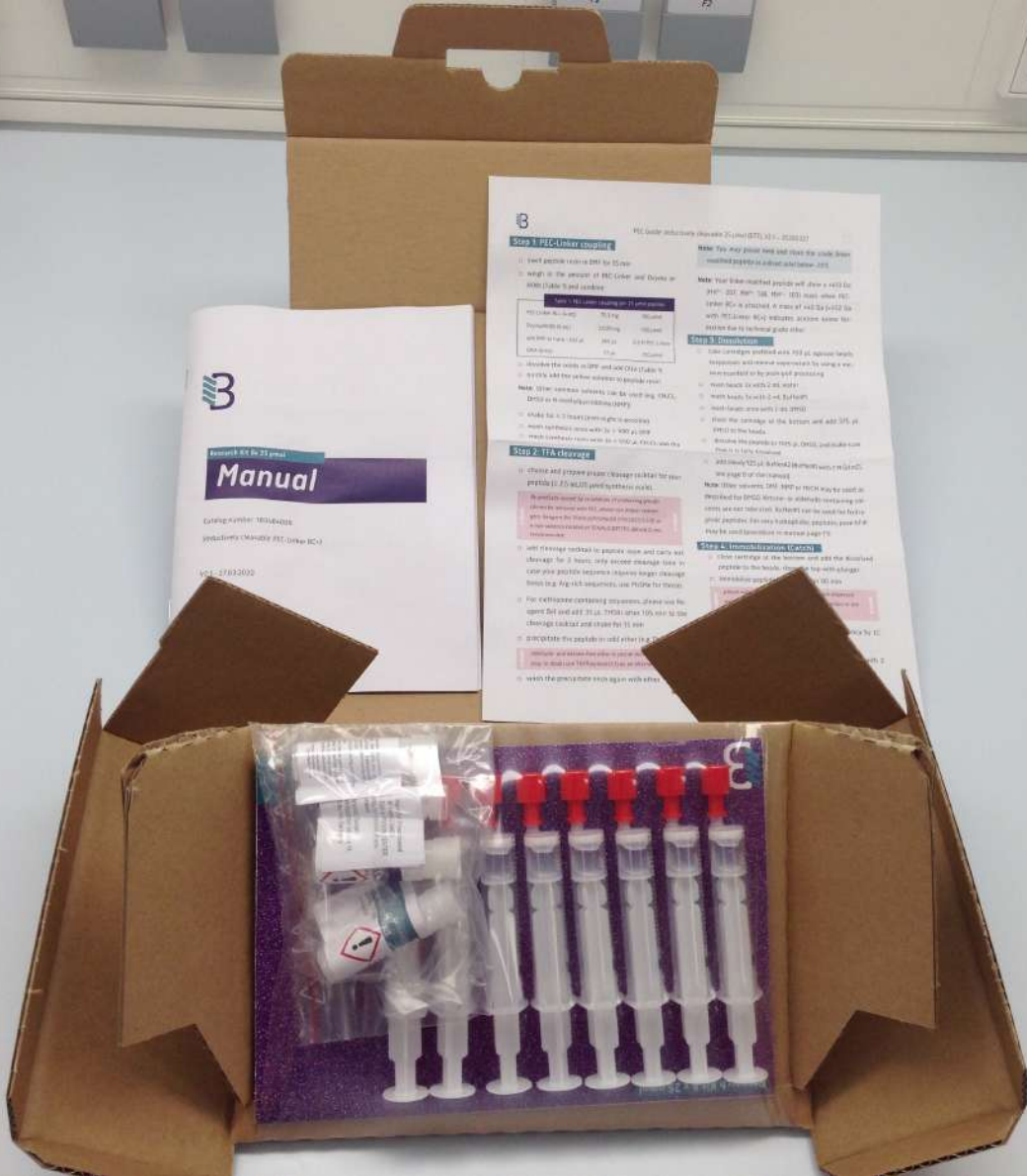
delyntic
Research Kit

ready to
use

Research Kit

8x25 μ molRC+ K00096
23.03.2020





B

Manual

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101-2182002

PEG linker delivery system (LDS) (LDS-1) - 0200101

Step 1: PEG-linear coupling

1. Load syringe with 0.5 mL of 5% NaOH.
2. Weigh in the amount of PEG linker and Dipeptide or Amino Acid in the reaction.

PEG linker (MW)	PEG linker (mmol)	Dipeptide or Amino Acid (mmol)
10 kDa	0.05	0.05
20 kDa	0.025	0.025
40 kDa	0.0125	0.0125

1. Dissolve the linker in 100 μ L of water and add 100 μ L of 5% NaOH. Note: Other common solvents can be used (eg. DMF, DMSO) as long as they are aprotic.

2. Add the dipeptide or amino acid to the linker solution.

3. Seal the syringe and incubate at 37 $^{\circ}$ C for 24 hours.

4. Wash the linker with water (3 \times 100 μ L) and then with the dipeptide or amino acid solution (3 \times 100 μ L).

Step 2: TFA cleavage

1. Prepare and prepare the reaction mixture for the cleavage (1.5 mL total volume).
2. Add the linker solution to the reaction mixture.
3. Seal the syringe and incubate at 37 $^{\circ}$ C for 24 hours.
4. Wash the linker with water (3 \times 100 μ L) and then with the dipeptide or amino acid solution (3 \times 100 μ L).
5. Add the linker solution to the reaction mixture.
6. Seal the syringe and incubate at 37 $^{\circ}$ C for 24 hours.
7. Wash the linker with water (3 \times 100 μ L) and then with the dipeptide or amino acid solution (3 \times 100 μ L).
8. Add the linker solution to the reaction mixture.
9. Seal the syringe and incubate at 37 $^{\circ}$ C for 24 hours.
10. Wash the linker with water (3 \times 100 μ L) and then with the dipeptide or amino acid solution (3 \times 100 μ L).

