

# Initiator+ Alstra Peptide Sequence Summary

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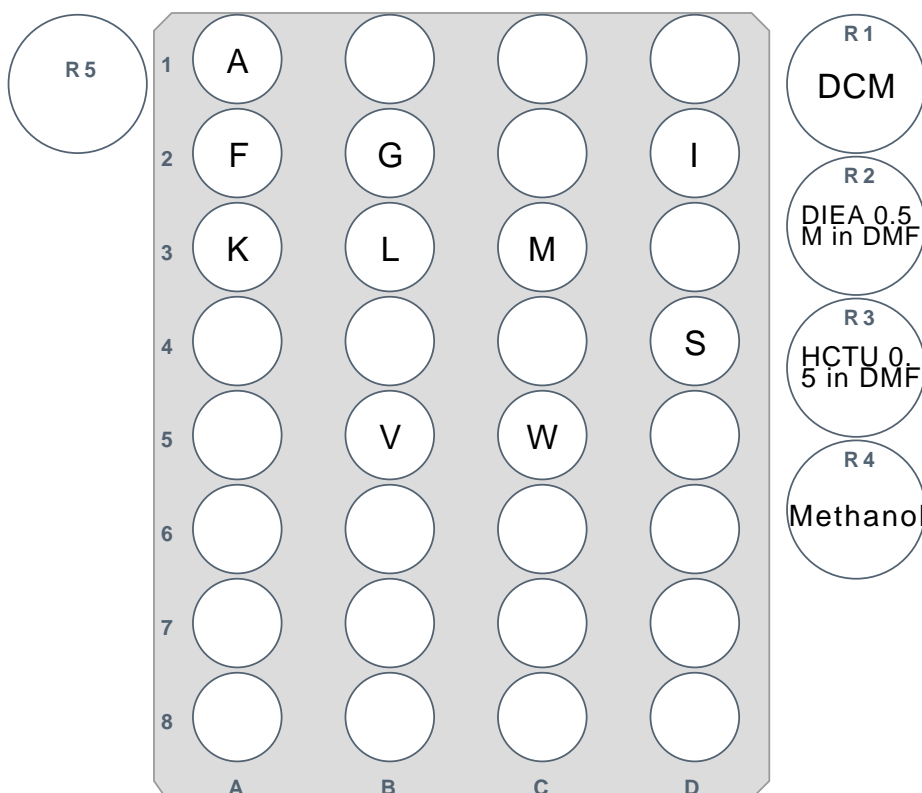


## Calculation Table

Sequence:

K K K S L V M G L L M A L A I L L L F F L L W K K K # 1

Resin: Rink amide  
ChemMatrix  
Loading: 0.50 mmol/g  
Mol. Weight: 3044.9 g/mol  
Quantity: 0.200 g  
Scale: 0.100 mmol  
Vial: 10 mL



| Pos | Acid | Chemical Name    | Equivalents | Mol Mass [g/mol] | Mass [g] | Volume [mL] | Dissolve Volume [mL] | Concentration [mol/L] | Total Volume [mL] |
|-----|------|------------------|-------------|------------------|----------|-------------|----------------------|-----------------------|-------------------|
| A:1 | A    | Fmoc-Ala-OH      | 5.0         | 311.3            | 0.638    |             | 3.597                | 0.5                   | 4.1               |
| A:2 | F    | Fmoc-Phe-OH      | 5.0         | 387.4            | 0.794    |             | 3.462                | 0.5                   | 4.1               |
| A:3 | K    | Fmoc-Lys(Boc)-OH | 5.0         | 468.5            | 2.835    |             | 9.792                | 0.5                   | 12.1              |
| B:2 | G    | Fmoc-Gly-OH      | 5.0         | 297.3            | 0.312    |             | 1.855                | 0.5                   | 2.1               |
| B:3 | L    | Fmoc-Leu-OH      | 5.0         | 353.4            | 3.198    |             | 15.548               | 0.5                   | 18.1              |
| B:5 | V    | Fmoc-Val-OH      | 5.0         | 339.4            | 0.356    |             | 1.817                | 0.5                   | 2.1               |
| C:3 | M    | Fmoc-Met-OH      | 5.0         | 371.5            | 0.761    |             | 3.49                 | 0.5                   | 4.1               |
| C:5 | W    | Fmoc-Trp(Boc)-OH | 5.0         | 526.6            | 0.553    |             | 1.647                | 0.5                   | 2.1               |
| D:2 | I    | Fmoc-Ile-OH      | 5.0         | 353.4            | 0.371    |             | 1.804                | 0.5                   | 2.1               |
| D:4 | S    | Fmoc-Ser(tBu)-OH | 5.0         | 383.4            | 0.403    |             | 1.777                | 0.5                   | 2.1               |

| Pos | Acid | Chemical Name           | Equivalents | Mol Mass<br>[g/mol] | Mass<br>[g] | Volume<br>[mL] | Dissolve<br>Volume<br>[mL] | Concentration<br>[mol/L] | Total<br>Volume<br>[mL] |
|-----|------|-------------------------|-------------|---------------------|-------------|----------------|----------------------------|--------------------------|-------------------------|
| R1  |      | DCM                     |             |                     |             | 0.0            |                            |                          | 20.0                    |
| R2  |      | DIEA 0.5M in DMF        | 10.0        | 129.2               |             | 9.493          | 99.507                     | 0.5                      | 109.0                   |
| R3  |      | HCTU 0.5 in DMF         | 4.98        | 413.7               | 11.747      |                | 56.792                     | 0.5                      | 56.792                  |
| R4  |      | Methanol                |             |                     |             | 0.0            |                            |                          | 20.0                    |
| S1  |      | DMF                     |             |                     |             | 0.0            |                            |                          | 1380.5                  |
| S2  |      | DMF2                    |             |                     |             | 0.0            |                            |                          | 140.1                   |
| S3  |      | 20% MePiperidine in DMF | 90.0        | 99.2                |             | 61.208         | 197.992                    | 2.0                      | 259.2                   |