

Cell-free Kits - Overview

Cell-free Protein Synthesis Kits

Cell-free synthesis kit	Reaction yield	Reaction volume	Reaction time (hrs)	Expression template	Expression mode	Protein classes expressed
RTS 100 <i>E. coli</i> HY Kit	20 µg	50 µl	1–4	Linear: 1, 3, 4 Vector: 6, 8	Batch	Standard soluble Membrane*
RTS 500 ProteoMaster <i>E. coli</i> HY Kit	6 mg	1 ml	6–24	Vector: 6, 8	CECF	Standard soluble Membrane*
RTS 9000 <i>E. coli</i> HY Kit	50 mg	10 ml	6–24	Vector: 6, 8	CECF	Standard soluble Membrane*
RTS 100 <i>E. coli</i> Disulfide Kit	80 µg	50 µl	6–24	Vector: 6, 8	CECF	Standard soluble, Disulfide-bonded, (Fab antibodies)
RTS 500 <i>E. coli</i> Disulfide Kit	2.5 mg	1 ml	6–24	Vector: 6, 8	CECF	Standard soluble, Disulfide-bonded, (Fab antibodies)
RTS 100 Wheat Germ Kit	5 µg	50 µl	3	Linear: 2 Vector: 7	Batch	Complex and large, Standard Membrane*
RTS 100 Wheat Germ CECF Kit	50 µg	50 µl	6–24	Linear: 2 Vector: 7	CECF	Complex and large, Standard Membrane*
RTS 500 Wheat Germ CECF Kit	1 mg	1 ml	6–24	Linear: 2 Vector: 7	CECF	Complex and large, Standard Membrane*
RTS 100 Insect Membrane Kit	2 µg	50 µl	4	Linear: 1, 3, 4 Vector: 5, 6, 8	Batch	Complex and large, Standard Membrane

RTS: Rapid (cell-free) translation system | CECF: Continuous exchange cell-free expression | Batch: Expression in batch format | * using detergents

Linear Templates and Vectors for Cell-Free Protein Synthesis

No.	PCR generated linear template	Protein tag
1	RTS Linear Template Kit Plus	His-tag, Strep-tag, Signal peptide
2	RTS Wheat Germ LinTempGen Set, His₆-tag	His-tag
3	RTS Linear Template Fab Kit	His-tag, Signal peptide
4	RTS 100 <i>E. coli</i> LinTempGen Set, His-tag	His-tag
No.	T7 vectors for cloning genes or linear templates	Protein tag
5	RTS pIX4.0 Insect Vector	Tag from cloned gene
6	RTS pIX3.0 Vector	Tag from linear template
7	RTS pIVEX Wheat Germ His₆-tag Vector Set	His-tag
8	RTS pIVEX <i>E. coli</i> His-tag, 2nd Gen. Vector Set	His-tag