

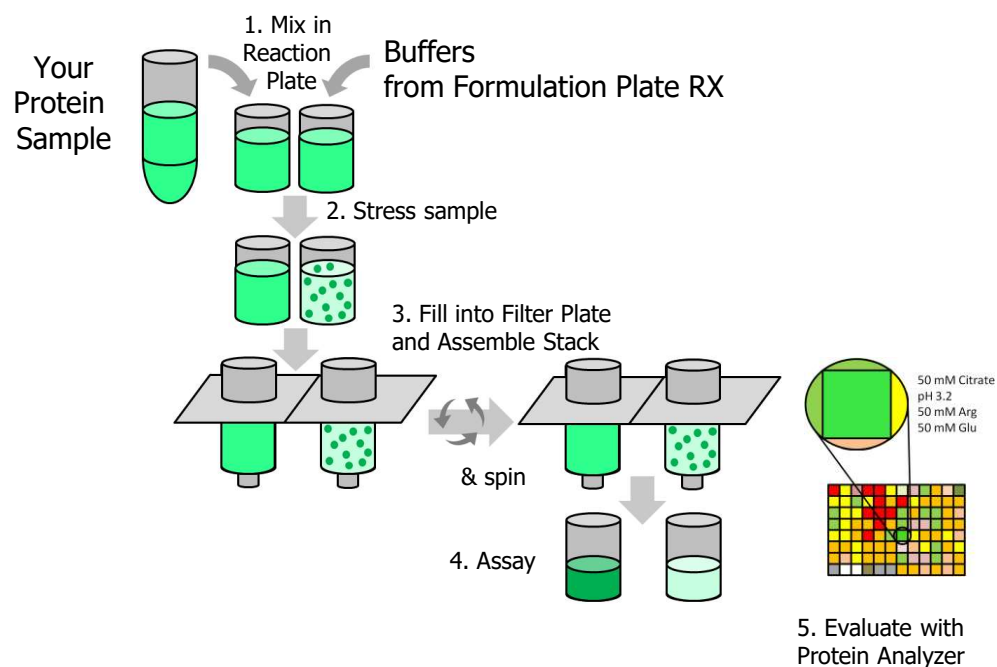
### Protocol A: Protein Solubility Profiling

**Goal:** identify conditions that keep protein solubilized

**Material:** non-aggregated protein sample (100 µL – 2 mL)

**Protocol:**

1. Mix aliquots of protein sample with solutions from Formulation Plate in Reaction Plate, i.e. 96 x ( 20 µL protein + 150 µL VeroSOLV-RX formulation). We recommend to obtain the reference reading of VeroSOLV-RX formulations (without protein) for more accurate results.
2. Optional - apply aggregation stress (i.e. heat to 37°C; incubate over night or 2 weeks; 20 x freeze/thaw cycles; shear through narrow-bore needle, etc.).
3. Transfer protein mixtures into Filter Plate and assemble Stack (Filter Plate on top, Collection Plate on bottom) and spin for 30 min at 3,000 rpm.
4. Assess protein content/function in filtrate. Evaluate data with Protein Analyzer and identify best solution. Consult the Manual for details. ([www.stablebiologics.com](http://www.stablebiologics.com)).



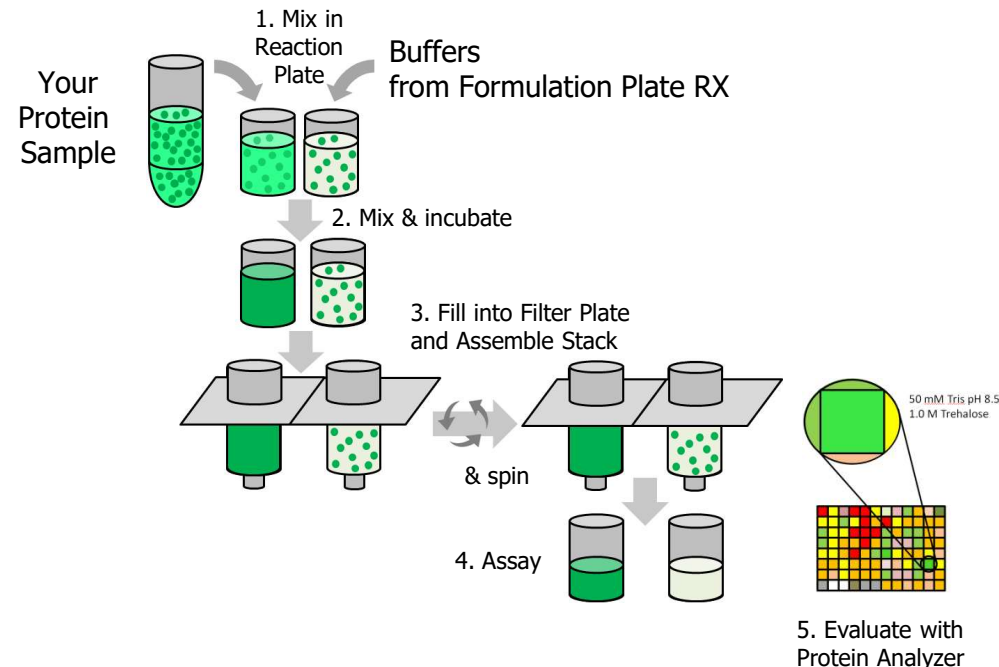
### Protocol B: Solubilize Aggregated Protein

**Goal:** identify conditions that solubilize an aggregated protein sample

**Material:** aggregated protein sample (100 µL – 2 mL)

**Protocol:**

1. Combine aliquots of aggregated protein sample with solutions from Formulation Plate in Reaction Plate, i.e. 96 x ( 20 µL protein + 150 µL VeroSOLV-RX formulation). We recommend to obtain the reference reading of VeroSOLV-RX formulations (without protein) for more accurate results.
2. Mix and incubate for more than 10 min.
3. Transfer protein mixtures into Filter Plate and assemble Stack (Filter Plate on top, Collection Plate on bottom) and spin for 30 min at 3,000 rpm.
4. Assess protein content/function in filtrate. Evaluate data with Protein Analyzer and identify best solution. Consult the Manual for details. ([www.stablebiologics.com](http://www.stablebiologics.com)).



# VeroSOLV-RX™

## Product Information

### Content:

- 1 x 96 well Formulation Plate RX
- 1 x 96 well Filter Plate
- 1 x 96 well Collection Plate
- 1 x 96 well Reaction Plate

## Purpose

### VeroSOLV-RX Protein Solubility Screening Kit

Systematic solution design and array-based filtration technology for:

- **Protein Solubility Profiling**  
or
- **Solubilizing of Aggregated Protein Sample**

For updated instructions and additional information please refer to [www.stablebiologics.com](http://www.stablebiologics.com)

## Order Information

Kit Size	Catalog #	Price USD	Size (kDa)
VeroSOLV-RX I	SB-102-001	299.00	1 – 10
VeroSOLV-RX II	SB-102-002	299.00	10 – 25
VeroSOLV-RX III	SB-102-003	299.00	25 – 90
VeroSOLV-RX IV	SB-102-004	299.00	90 – 250

3 pack discounted to \$750 USD

Stable Biologics LLC  
1500 1<sup>st</sup> Ave N  
Birmingham, AL 35203  
USA

Send order to: [cweaver@stablebiologics.com](mailto:cweaver@stablebiologics.com)

## Formulation Listing

Well		Buffer#			Additive		Well		Buffer#			Additive					
#	Row Col	Conc	unit	pH	NAME	Conc	unit	#	Row Col	Conc	unit	pH	NAME	Conc	unit		
1	A 1				NaCl	60	mM	49	E 1				NaCl	60	mM		
2	A 2				Arg/Glu*	100	mM	50	E 2				Arg/Glu*	100	mM		
3	A 3				Arginine-HCl	30	mM	51	E 3				Arginine-HCl	30	mM		
4	A 4				Glycine	100	mM	52	E 4				Glycine	100	mM		
5	A 5				Poloxamer 188	0.2	%w/v	53	E 5				Poloxamer 188	0.2	%w/v		
6	A 6	Acetate	50	mM	5.0	EDTA	4	mM	54	E 6	Sodium phosphate	50	mM	6.5	EDTA	4	mM
7	A 7				Na bisulfate	6	mM	55	E 7				Na bisulfate	6	mM		
8	A 8				Sucrose	100	mM	56	E 8				Sucrose	100	mM		
9	A 9				Sorbitol	100	mM	57	E 9				Sorbitol	100	mM		
10	A 10				PEG 400	2	%w/v	58	E 10				PEG 400	2	%w/v		
11	A 11				Glycerol	6	%w/v	59	E 11				Glycerol	6	%w/v		
12	A 12	Ammonium sulfate	3	M				60	E 12	Sodium lactate	50	mM	6.5				
13	B 1				NaCl	60	mM	61	F 1				NaCl	60	mM		
14	B 2				Arg/Glu*	100	mM	62	F 2				Arg/Glu*	100	mM		
15	B 3				Arginine-HCl	30	mM	63	F 3				Arginine-HCl	30	mM		
16	B 4				Glycine	100	mM	64	F 4				Glycine	100	mM		
17	B 5				Poloxamer 188	0.2	%w/v	65	F 5				Poloxamer 188	0.2	%w/v		
18	B 6	Histidine	50	mM	6.0	EDTA	4	mM	66	F 6	Potassium phosphate	50	mM	7.0	EDTA	4	mM
19	B 7				Na bisulfate	6	mM	67	F 7				Na bisulfate	6	mM		
20	B 8				Sucrose	100	mM	68	F 8				Sucrose	100	mM		
21	B 9				Sorbitol	100	mM	69	F 9				Sorbitol	100	mM		
22	B 10				PEG 400	2	%w/v	70	F 10				PEG 400	2	%w/v		
23	B 11				Glycerol	6	%w/v	71	F 11				Glycerol	6	%w/v		
24	B 12	DMSO	5	%v/v				72	F 12	Na/K phosphate	50	mM	7.5	Tween 20	0.4	%w/v	
25	C 1				NaCl	60	mM	73	G 1				NaCl	60	mM		
26	C 2				Arg/Glu*	100	mM	74	G 2				Arg/Glu*	100	mM		
27	C 3				Arginine-HCl	30	mM	75	G 3				Arginine-HCl	30	mM		
28	C 4				Glycine	100	mM	76	G 4				Glycine	100	mM		
29	C 5				Poloxamer 188	0.2	%w/v	77	G 5				Poloxamer 188	0.2	%w/v		
30	C 6	Sodium Succinate	50	mM	6.0	EDTA	4	mM	78	G 6	Na/K phosphate	50	mM	7.5	EDTA	4	mM
31	C 7				Na bisulfate	6	mM	79	G 7				Na bisulfate	6	mM		
32	C 8				Sucrose	100	mM	80	G 8				Sucrose	100	mM		
33	C 9				Sorbitol	100	mM	81	G 9				Sorbitol	100	mM		
34	C 10				PEG 400	2	%w/v	82	G 10				PEG 400	2	%w/v		
35	C 11				Glycerol	6	%w/v	83	G 11				Glycerol	6	%w/v		
36	C 12	Original sample buffer						84	G 12				Benzyl alcohol	0.2	%w/v		
37	D 1				NaCl	60	mM	85	H 1				NaCl	60	mM		
38	D 2				Arg/Glu*	100	mM	86	H 2				Arg/Glu*	100	mM		
39	D 3				Arginine-HCl	30	mM	87	H 3				Arginine-HCl	30	mM		
40	D 4				Glycine	100	mM	88	H 4				Glycine	100	mM		
41	D 5				Poloxamer 188	0.2	%w/v	89	H 5				Poloxamer 188	0.2	%w/v		
42	D 6	Sodium citrate	50	mM	6.5	EDTA	4	mM	90	H 6	Tris	50	mM	7.5	EDTA	4	mM
43	D 7				Na bisulfate	6	mM	91	H 7				Na bisulfate	6	mM		
44	D 8				Sucrose	100	mM	92	H 8				Sucrose	100	mM		
45	D 9				Sorbitol	100	mM	93	H 9				Sorbitol	100	mM		
46	D 10				PEG 400	2	%w/v	94	H 10				PEG 400	2	%w/v		
47	D 11				Glycerol	6	%w/v	95	H 11				Glycerol	6	%w/v		
48	D 12	Glycine	50	mM	3.0	NaCl	500	mM	96	H 12	Tris	50	mM	8.5			

Note:

DMSO: dimethyl sulfoxide. EDTA: ethylenediaminetetraacetic acid. NaCl: sodium chloride. PEG: polyethylene glycol. # pH values for buffers used only; \* Arginine-HCl/Glutamic acid, each amino acid is 50 mM  
Well A12, B12 and C12 are for control experiments.