

SMC® Plate Washer Evaluation Kit

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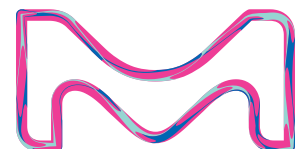
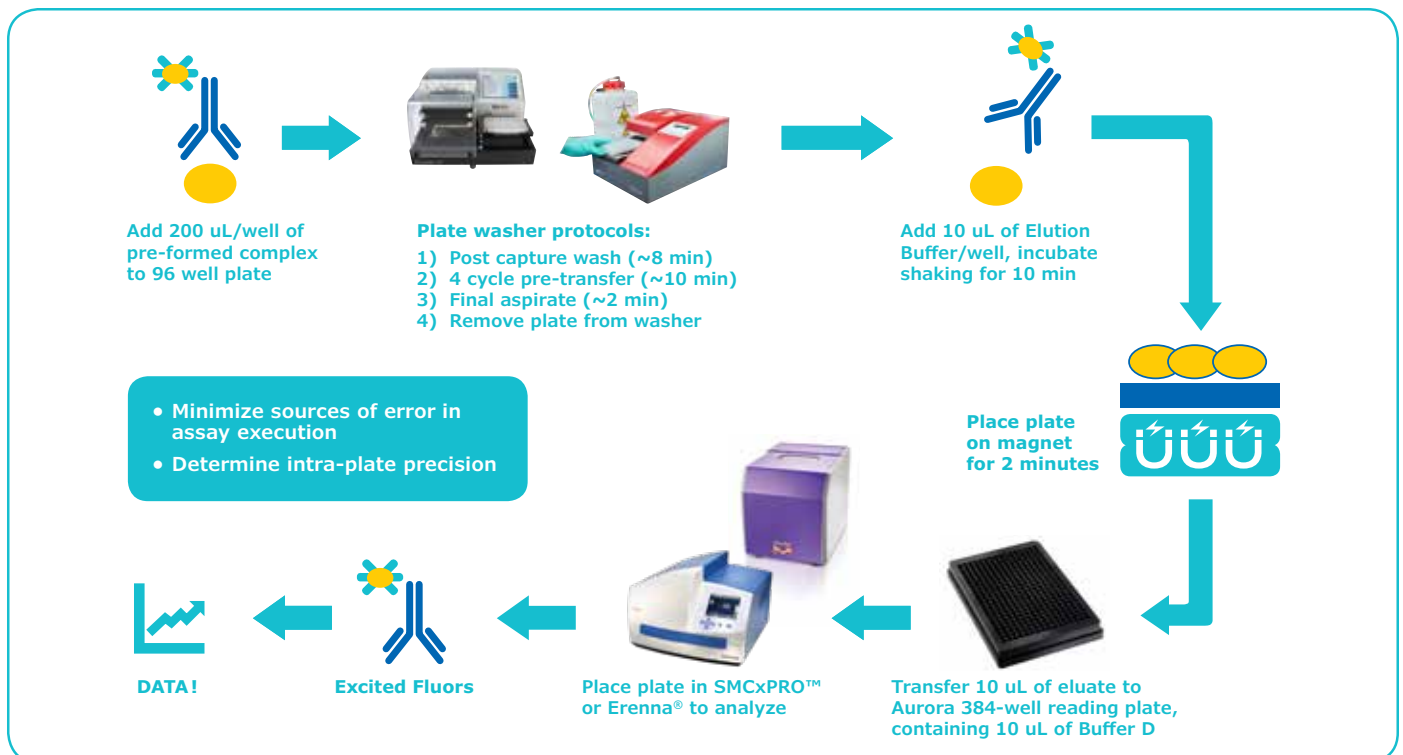
With SMC® immunoassays reaching sensitivities in the femtogram/mL level, your immunoassay requires both the highest performance and the highest consistency through each step of your assay workflow. Before running your precious samples, evaluate the performance of your plate washer using our new SMC® Plate Washer Evaluation Kit.

This Kit provides all the reagents required to run 5 plates, including a unique reagent that mimics steps in the SMC® immunoassay, with an abbreviated workflow that both isolates and highlights the performance of your plate washer. We optimized this reagent to analyze both BioTek® 405 TS and Tecan HydroFlex™ microplate washers and to read on both the SMCxPRO™ and Erenna® immunoassay platforms.

- Five Assays Per Kit: Test on multiple washers or before and after plate washer maintenance
- Abbreviated Workflow: Execute your assay in approximately 1 hour
- Evaluates both the BioTek® 405 TS and Tecan HydroFlex™ microplate washers
- Data analyzable on both the SMCxPRO™ and Erenna® platforms
- Confirm optimal plate washer performance before evaluating your precious samples

Assess your plate washer performance with our new SMC® Plate Washer Evaluation Kit so you can assay precious samples with confidence!

Plate Washer Evaluation Kit Workflow



The first data set is from a plate washer in need of preventative maintenance. The highlighted wells, with lower Response Event values, indicate microparticle loss that will lead to poor assay precision. Nearly all columns and rows have greater than 20% CV.

The second data set is the same plate washer assessed after performing recommended maintenance procedures. The overall plate, column, and row precision have decreased to below 20% CV.

Plate Washer before Preventive Maintenance

	1	2	3	4	5	6	7	8	9	10	11	12	Row Mean	SD	CV
A	57	41	69	41	84	63	55	92	90	87	73	100	71	20	28
B	87	16	26	2	36	43	32	34	30	42	41	89	40	25	64
C	88	38	18	24	40	31	15	36	71	69	81	91	50	28	56
D	82	60	25	11	29	46	54	44	51	52	62	79	50	21	42
E	55	6	46	13	33	34	38	7	40	47	53	70	37	20	54
F	59	14	49	34	25	18	1	2	61	55	61	72	38	25	67
G	42	10	11	1	25	8	3	32	8	29	54	69	24	22	89
H	55	18	69	23	68	44	63	69	78	63	84	75	59	21	35
Column Mean	66	25	39	19	43	36	33	39	54	56	64	81			
SD	18	19	23	14	22	17	24	30	27	18	15	11			
CV	27	75	58	78	51	48	74	76	50	32	23	14			

Wells in orange indicate wells with visible loss of microparticles
CV's in red are >20% CV

Plate Washer after Preventive Maintenance

	1	2	3	4	5	6	7	8	9	10	11	12	Row Mean	SD	CV
A	68	65	86	57	71	79	61	79	59	69	59	82	70	10	14
B	79	55	63	62	60	60	52	49	64	61	43	70	60	9	16
C	87	75	78	59	70	69	62	68	63	86	61	85	72	10	14
D	75	72	65	63	64	62	61	62	53	68	54	77	65	7	11
E	68	53	69	63	68	62	58	59	64	61	60	81	64	7	11
F	76	63	73	83	73	70	83	65	70	84	66	87	74	8	11
G	78	62	55	44	68	51	56	54	55	68	62	83	61	11	18
H	97	76	89	77	80	83	85	71	87	88	78	81	83	7	9
Column Mean	78	65	72	63	69	67	65	63	64	73	61	81			
SD	10	9	11	12	6	10	12	10	11	11	10	5			
CV	12	13	16	19	8	16	19	15	17	15	16	6			

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