



Optimized wash programs — Agilent BioTek 50 TS

Wash programs for the Agilent BioTek 50 TS washer

Validated Mabtech settings for ELISA, ELISpot, FluoroSpot, and EYRAplex assays.

Use this document as a reference when programming your washer or when configuring a new instrument. Enter each value exactly as shown; the settings have been validated against Mabtech's ELISpot, FluoroSpot, ELISA, and EYRAplex kits.

ELISA wash program *For ELISA plates on 96-well washers*

Wash

Cycles	5
Final aspirate	No

Aspirate

Travel rate	7
Delay	0 msec
Z-offset	24
Y-offset	0
Second aspirate	No

Dispense

Volume	300 µl/well
Flow rate	6
Z-offset	120
Y-offset	0

Wash options

Wash format	Strip
Prime before washing	Yes
↳ Prime volume	5 ml
↳ Prime flow rate	5
Bottom wash before first cycle	No
Shake / soak after dispense	No
Prime between cycles	No

End of program.

ELISpot / FluoroSpot wash program *Same settings apply to both assays*

Wash

Cycles	6
Final aspirate	No

Aspirate

Travel rate	7
Delay	0 msec
Z-offset	24
Y-offset	0
Second aspirate	No

Dispense

Volume	250 µl/well
Flow rate	5
Z-offset	120
Y-offset	0

Wash options

Wash format	Plate
Prime before washing	Yes
↳ Prime volume	5 ml
↳ Prime flow rate	5
Bottom wash before first cycle	No
Shake / soak after dispense	No
Prime between cycles	No

Final aspirate step

Travel rate	3
Delay	0 msec
Z-offset	45
Y-offset	0
Second aspirate	No

End of program.

EYRAplex wash program *Only applicable on the 50TS8M with flat magnet installed*

Prime before washing

Prime volume	5
Prime flow rate	5

Step 1 — Soak (once, at the start)

Soak time	90 seconds
Shake during soak	No

Steps 2–5 — Four wash cycles

Number of cycles	4
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Per-cycle aspiration

Travel rate	6
Delay	0 msec
Z-offset	38
Y-offset	–20

Per-cycle dispensing

Volume	200 µl
Flow rate	7
Z-offset	120
Y-offset	0

Per-cycle soak (after dispense)

Soak time	45 seconds
Shake during soak	No

Final aspiration (after cycle 4)

Travel rate	6
Delay	0 msec
Z-offset	35
Y-offset	–20

Important: Remove the plate immediately after the final wash to prevent bead drying and loss of signal.

End of program.

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These programs are validated against Mabtech's ELISpot, FluoroSpot, ELISA, and EYRAplex kits for use with the Agilent BioTek 50 TS washer supplied by Mabtech (50TS8, 50TS8M). For assistance, contact your Mabtech application scientist.