

FLEXWASH Series

ELISA Microplate Washers • 3 Models • 8- and 12-Channel Manifolds • $\leq 1 \mu\text{L}$ Residual
• 1 or 3 Wash Liquids

The **FLEXWASH ELISA microplate washers** wash whole 96-well plates or single strips with 8- and 12-channel manifolds, both supplied. Residual volume stays at $\leq 1 \mu\text{L}$ per well. Flat, U- and V-bottom plates are supported, with soak, shake and bottom-wash steps. Every model has a separate rinse bottle for distilled water, a buffer bottle that protects the pump and a waste bottle with an overflow alarm. **FLEXWASH 3** and **FLEXWASH 5** are operated from an LCD panel; **FLEXWASH 10** adds a touch screen, finer control and keeps three wash liquids connected at the same time.

96-WELL PLATES & STRIPS

8 + 12 CHANNEL MANIFOLDS

$\leq 1 \mu\text{L}$ / WELL RESIDUAL

1-12 STRIPS, SKIP ALLOWED

1-99 WASH CYCLES

SOAK • SHAKE • BOTTOM WASH

OVERFLOW ALARM

4 OR 6 BOTTLES

SKU PRO7228 • PRO7229 • PRO6198

Document type: Technical Specification Sheet

Product family: FLEXWASH ELISA Microplate Washers

Models / SKU: FLEXWASH 3 PRO7228 • FLEXWASH 5 PRO7229 • FLEXWASH 10 PRO6198

Format: A4 landscape • CORE-TECHSPEC 1.2

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Which FLEXWASH model?

FLEXWASH 3

LCD • membrane keypad • 1 wash liquid • 4 bottles

FLEXWASH 5

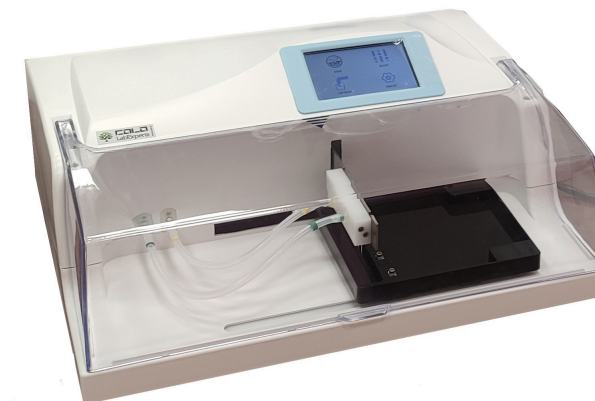
LCD • touch-button keypad • 1 wash liquid • 4 bottles

FLEXWASH 10

Touch screen • up to 100 programs • 3 wash liquids • 6 bottles



FLEXWASH 5 • LCD control panel, wash, rinse, buffer and waste bottles • SKU PRO7229



FLEXWASH 10 • touch-screen model with transparent cover and plate carrier • SKU PRO6198

MODELS

FLEXWASH 3 • 5 • 10

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FLEXWASH ELISA microplate washers • technical specification

Whole-plate and strip washing for 96-well ELISA plates — three models, one washing principle

8 + 12 CHANNEL HEADS

≤ 1 µL RESIDUAL

SOAK • SHAKE

BOTTOM WASH

RINSE BOTTLE

OVERFLOW ALARM

— One washing principle, three levels of operation

Product Overview

Application profile

ELISA washing: removal of unbound antigen, antibody and conjugate between incubation steps.

Clinical and veterinary diagnostics: serology, infectious-disease and hormone ELISA kits.

Food and feed testing: allergen, mycotoxin and residue ELISA kits.

Research and teaching: immunoassays in 96-well plates and in single strips.

Several kits per day (FLEXWASH 10): three different wash buffers connected at once.

Key features

Wash steps: dispense, soak, shake and aspirate, 1 to 99 cycles per program.

Aspiration: 0.1–9.9 s, one-point, two-point and complete bottom wash.

Plate types: flat, U-bottom and V-bottom microplates and strips.

Programs: user wash programs stored in the instrument.

Waste overflow alarm: liquid sensor in the waste bottle raises an alarm before the bottle overflows.

Touch screen (FLEXWASH 10): pause during washing, line wash 1–10 min, dispense volume set in 1 µL steps.

Three wash liquids (FLEXWASH 10): wash channel A, B or C selected in each program.

Why a FLEXWASH washer

Low residual volume: ≤ 1 µL per well — less background, more consistent optical density.

Plate or strip: 1 to 12 strips per run, with strips skipped where wells are empty.

Both manifolds supplied: 8-channel and 12-channel heads are included.

Protected pump: a buffer bottle sits between the waste line and the pump.

Clean lines: a separate rinse bottle flushes the lines with distilled water after use.

Core technical summary

Parameter	Specification
Product type	ELISA microplate washer, plate and strip
Manifolds	8-channel and 12-channel, both supplied
Plate format	96-well (8 × 12) plates and 1–12 strips
Residual volume	≤ 1 µL per well
Wash cycles	1–99
Soak time	0–24 h, step 1 s
Aspiration time	0.1–9.9 s
Operating environment	5–40 °C, ≤ 80 % relative humidity

RESIDUAL VOLUME

≤ 1 µL / well

MANIFOLDS

8 + 12 channel

WASH CYCLES

1–99

WASH LIQUIDS

1 or 3

Plate type, wash protocol and the number of wash liquids are confirmed in the COLO.Science quotation. Model differences are compared on page 3.

[FLEXWASH PRODUCT PAGE](#)
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Technical Specifications • Models Compared

Parameter	FLEXWASH 3 • PRO7228	FLEXWASH 5 • PRO7229	FLEXWASH 10 • PRO6198
Operation	LCD, 8-key membrane keypad	LCD, 8-key touch-button keypad	Touch screen
Wash liquid channels	1	1	3 (A, B, C), selected per program
Bottles	4 • wash, rinse, buffer, waste	4 • wash, rinse, buffer, waste	6 • wash A, B, C, rinse, buffer, waste
Stored wash programs	up to 48	up to 48	up to 100
Dispense volume setting	10–3000 µL / well	10–3000 µL / well	10–9999 µL, step 1 µL
Shake time	0–600 s, step 1 s	0–600 s, step 1 s	0–24 h, step 1 s or 1 min
Bottom wash	One-point, two-point, complete	One-point, two-point, complete	Bottom wash 0.1–9.9 s, two-point aspiration
Line wash • pause	Rinse key • —	Rinse key • —	1–10 min • pause and resume
Power	220 V, 50 Hz	220 V, 50 Hz	AC 220 V ±10 %, 50 Hz, 65 VA
Dimensions (L × W × H)	448 × 382 × 163 mm	448 × 382 × 163 mm	446 × 368 × 164 mm
Net weight	8 kg	8 kg	9 kg

Dashes mark functions not listed for that model. FLEXWASH 3 and FLEXWASH 5 share one mechanical platform and differ in the keypad; FLEXWASH 10 is the touch-screen model with three wash liquids.

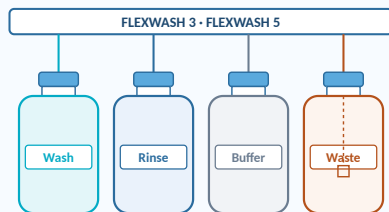
Common to all FLEXWASH models

Manifolds	8-channel and 12-channel, both supplied	Residual volume	≤ 1 µL per well
Plate format	96-well plate (8 × 12), strips	Soak time	0–24 h, step 1 s
Plate bottom	Flat, U-bottom, V-bottom	Aspiration time	0.1–9.9 s
Wash strips	1–12, skip strip allowed	Waste overflow	Liquid sensor with alarm
Wash cycles	1–99 per program	Environment • shipping carton	5–40 °C, ≤ 80 % RH • 50 × 53 × 59 cm, 13 kg gross

Stated values are instrument settings; the achieved residual volume depends on plate type, manifold adjustment and the wash protocol. Mains voltage and plug type are confirmed in the quotation.

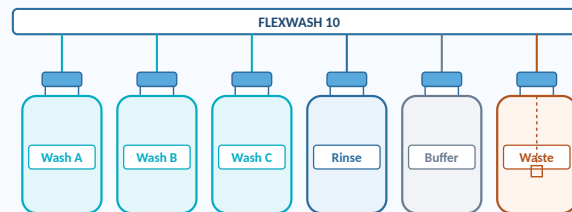
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[BIOSCIENCE — OVERVIEW](#)
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Bottle System — 4 or 6 Bottles



4 bottles — one wash liquid

Wash liquid, distilled-water rinse, vacuum buffer and waste with level sensor.



6 bottles — three wash liquids

Wash A, B and C connected at the same time; the program selects the channel.

☐ wash liquid (dispensed into the wells) ☐ distilled water for line wash ☐ vacuum buffer — keeps liquid away from the pump ☐ waste with overflow sensor

What each bottle does

Wash	Wash buffer pushed by pressure through the manifold into the wells. A filter at the bottom of the suction line keeps particles out of the needles.
Rinse	Distilled water. After the run the lines are flushed so that salts from the wash buffer do not dry and crystallise in tubing and needles — the most common cause of blocked needles.
Buffer	Sits between the waste line and the vacuum pump, so aspirated liquid never reaches the pump.
Waste	Collects the aspirated liquid. The liquid sensor in the cap raises the overflow alarm.



Bottle set as delivered

Single-channel models: waste, wash, buffer and rinse, labelled and colour-coded.

Why six bottles — when the FLEXWASH 10 pays off

Several kits a day: ELISA kits often specify their own wash buffer or dilution. Three buffers stay connected, so a change of kit does not mean emptying, rinsing and refilling a bottle.

One program per kit: the wash channel is part of the stored program — the operator selects the program, the instrument selects the buffer. Fewer mix-ups between kits.

Less carry-over: each buffer has its own bottle and line, so one kit's buffer is not diluted by another.

Same rinse and protection: rinse, buffer and waste bottles work as on the single-channel models.

Multi-inlet washing is an established feature of laboratory washers because it lets several buffers be used in one process; flushing the lines with distilled water after use is the standard recommendation against clogging. A single-channel model is the right choice when one wash buffer covers the daily work.

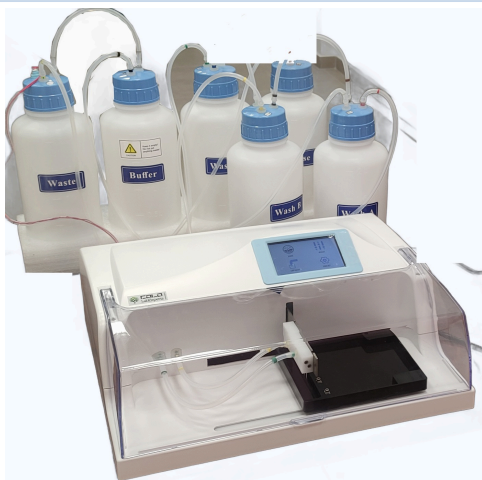
Schematic view; bottles and tubing are colour-coded on the instrument. Bottles, silicone tubing and both manifolds are part of the standard delivery. Bottle volume and spare parts are confirmed in the COLO.Science quotation.

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FLEXWASH 10 with six bottles connected: waste, buffer, wash A, B, C and rinse

Ordering information

Item	Value
Models - SKU	FLEXWASH 3 PRO7228 · FLEXWASH 5 PRO7229 · FLEXWASH 10 PRO6198
Product type	ELISA microplate washer, plate and strip
Standard delivery	Washer, 8- and 12-channel manifolds, bottles (4 or 6), silicone tubing, power cord, manual
Wash liquids	1 (FLEXWASH 3, 5) · 3 (FLEXWASH 10)
Operation	LCD keypad (FLEXWASH 3, 5) · touch screen (FLEXWASH 10)
Shipping carton	50 × 53 × 59 cm, 13 kg gross

Configuration checklist

Plate type: flat, U- or V-bottom; whole plates or strips.

Wash buffers: one buffer for all kits, or two to three different buffers in daily use.

Operation: keypad (FLEXWASH 3, FLEXWASH 5) or touch screen with more settings (FLEXWASH 10).

Programs: number of wash protocols to be stored.

Installation: delivery, installation and operator training by COLO.Science on request.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the ELISA kits you run, the plate type and how many different wash buffers you use. COLO.Science will confirm the model, the delivery time and the installation.

QUICK CONTACT

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COLO.SCIENCE · ELISA WASHER CONFIGURATION SUPPORT

One wash buffer or three?

Tell us which kits you run and how many plates per day. COLO.Science will recommend the FLEXWASH model and confirm delivery and installation.

Web: colo.si

Ask us:

Price and current discount, stock and delivery time, installation and training, matching ELISA microplate readers, spare manifolds and tubing — write to sales@colo.si or call us.

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