

Quantified 2026-09-22 · 10:52 Blotto v8.9.6.9 2 channels

Band volume = $\Sigma(\text{signal} - \text{local background})$ inside the connected island footprint above background + 2σ . Each volume is reported as value $\pm$ uncertainty: the local background's pixel-to-pixel variation propagated over the band's footprint ($\sigma\sqrt{N}$) — the measurement error on that volume. Where two lanes' $\pm$ ranges overlap, their difference is within background scatter. Cross-channel normalization divides each band by its lane's 800 nm signal, so protein loads are comparable across lanes. Numbers are shaped only by the targeting (lanes/boundaries) and the background method.

- Blotto v8.9.6.9 · quantified 2026-09-22 10:52
- Source: 0008187_03_700.TIF
- Waterline: background + 2σ (fixed). Reference lane: strongest reliable (peak SNR ≥ 10), auto-picked.
- 700 nm: background = median-border (ring 3 px); band margin 2x; exposure mode auto.
- 800 nm: background = median-border (ring 3 px); band margin 1.5x; exposure mode auto.

band	data	L1	L2	L3	L4	L5	L6	L7	L8	L9
A	0008187_03_700.TIF	58,233 ± 10.5	56,697 ± 9	42,950 ± 10.3	37,349 ± 11.7	38,860 ± 10.3	40,523 ± 8.5	45,994 ± 9	51,032 ± 9.7	65,018 ± 10.3

band	data	L1	L2	L3	L4	L5	L6	L7	L8	L9
A	÷ norm	1.3 ± 0.001	1.6 ± 0.001	0.858 ± 0.001	0.766 ± 0.001	0.874 ± 0.001	1.4 ± 0.001	0.899 ± 0.001	0.987 ± 0.001	1.2 ± 0.001

	band	data	L1	L2	L3	L4	L5	L6	L7	L8	L9
B		0008187_03_800.TIF	44,625 ± 32.8	35,172 ± 32.2	50,063 ± 37.2	48,760 ± 40.1	44,438 ± 39.7	29,319 ± 29.4	51,166 ± 39.3	51,722 ± 38.6	55,014 ± 39.6

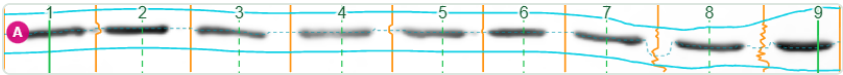
[illegible]

700 nm **Row A** · fluorescence



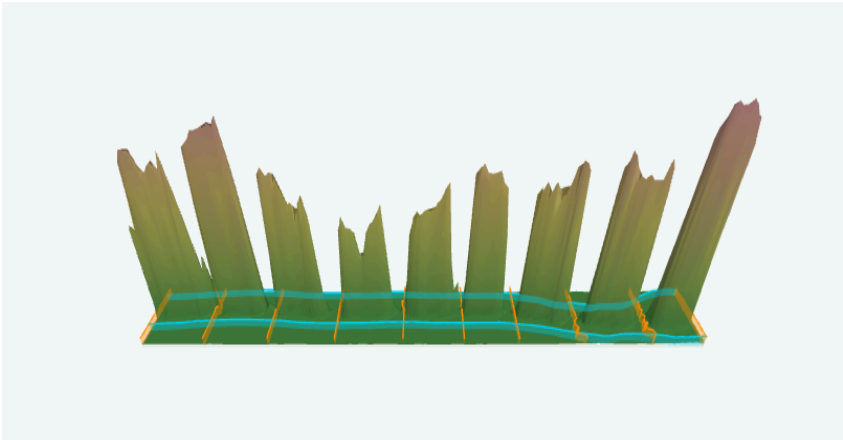
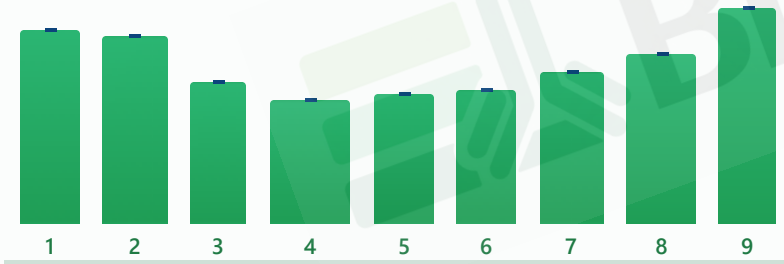
ROI 424×35 px

Full image · 0008187_03_700.TIF (ROI boxed)



ROI — lane boundaries (orange), band boundaries (cyan); Row A highlighted

Quantification 9 bands · volume ± inside each band outline



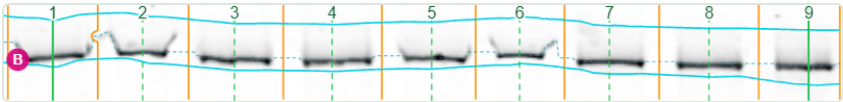
3-D signal surface — height = intensity; boundary curtains mark the splits

800 nm **Row B** · fluorescence



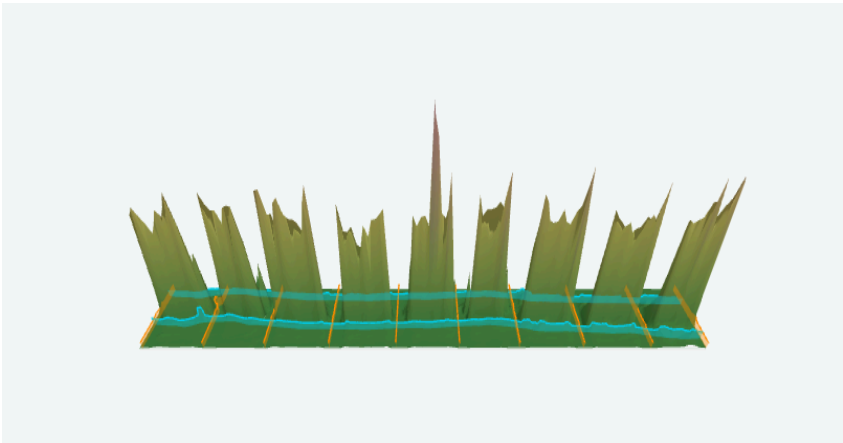
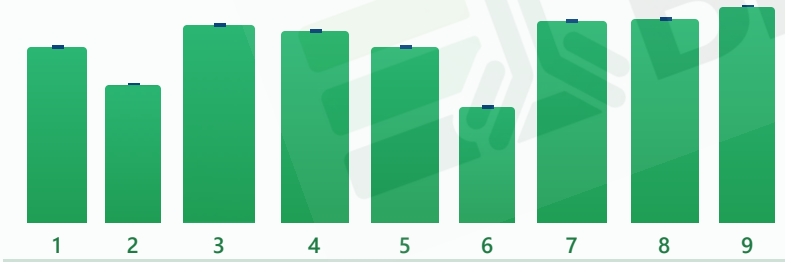
ROI 429×49 px

Full image · 0008187_03_800.TIF (ROI boxed)



ROI — lane boundaries (orange), band boundaries (cyan); Row B highlighted

Quantification 9 bands · volume ± inside each band outline



3-D signal surface — height = intensity; boundary curtains mark the splits

