

Countable Labs.

Count what counts.

Countable PCR delivers absolute clarity
for Cell and Gene Therapy.

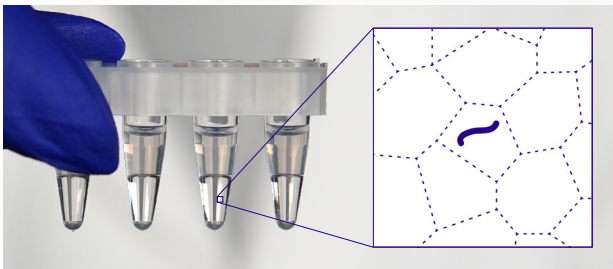
countablelabs.com

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Know exactly what's in your vector prep before your next milestone.

Conventional dPCR leaves critical gaps in CGT workflows — rain artifacts and Poisson correction obscure true molecule counts, thresholding introduces subjectivity, and detecting low-level impurities or accurate VCN analysis remains unreliable. Critical questions about viral genome integrity remain unanswered.

Countable PCR delivers reproducible, linear counting – across a broad dynamic range.

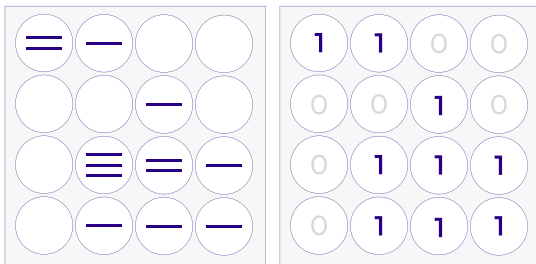


Partition single molecules across 30 million picoliter-sized compartments in a PCR tube with only a simple centrifugation step.

Amplify without bias and capture clean, spatially resolved fluorescent signal for direct, single molecule counting.

Digital PCR

20K partitions



Multiple molecules in a single partition

Partition crowding

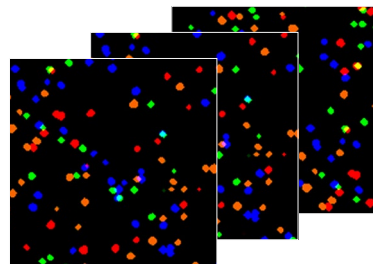


Signal interference

VS

Countable PCR

>30M partitions



Single molecules isolated in 3D space

Single molecule spatial isolation

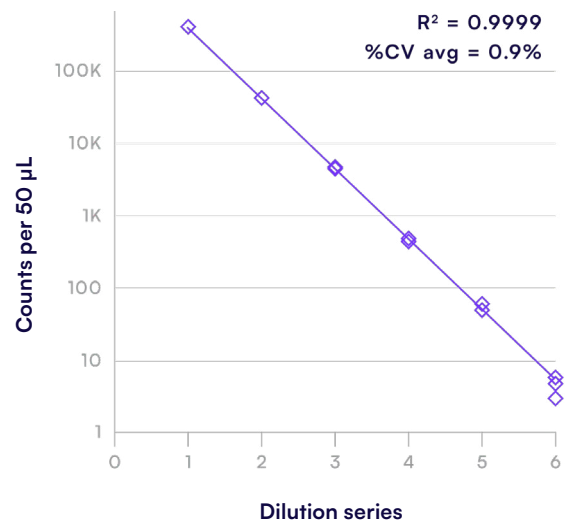


Clean signal

1,000X more compartments

Direct quantification. Total confidence.

- Absolute counts - no standard curves, no Poisson correction, no ambiguity
- Reproducible quantification means fewer surprises at release
- Consistent results across operators, sites, and runs for easy scale-up and tech transfer
- Clean signal with no rain, no thresholding, and no spectral overlap
- Analyze directly from crude lysates and process intermediates minimizing bias
- Accelerate analytical development by running fewer replicates without sacrificing confidence



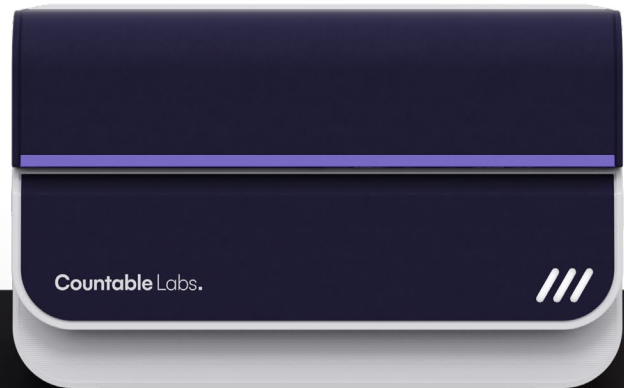
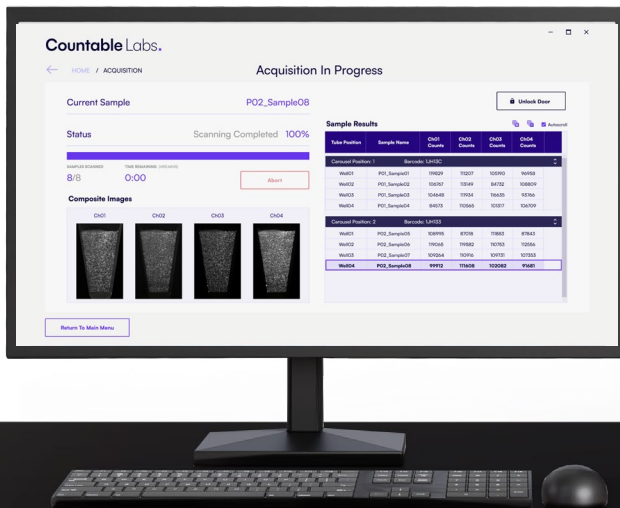
<3% CV

Across operators, instruments, and runs

6-log

Dynamic range

Countable PCR maintains linearity across a 6-log dynamic range with $R^2 = 0.9999$ — delivering absolute counts and minimal variability for accurate titer and reliable VCN analysis, from millions of copies down to single digits.



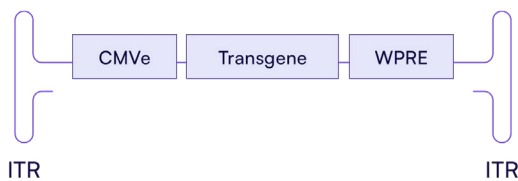
One assay, more answers.

Design a multiplex assay spanning your vector from ITR to ITR. Enable the linkage module and Countable PCR spatially resolves every molecule — distinguishing complete genomes from partials in a single run.

Titer and genome integrity, simultaneously.

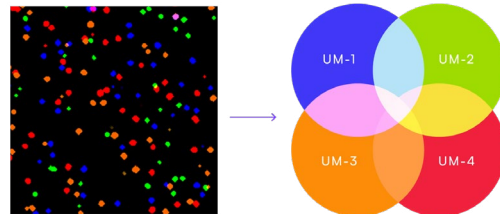
Step 1

Design a multiplex assay.



Step 2

Turn on linkage module on Countable system.



Step 3

Analyze data with Linkage Visualizer.



TESTIMONIAL



In the context of AAV characterization, Countable PCR proved invaluable for quantifying sequence integrity of low-level impurities even against a dominant background of the AAV capsids and genomes. The platform reliably resolved and quantified minor impurity species, which is critical for meeting the quality standards required in gene therapy applications.

David Dobnik, Ph.D.

National Institute of Biology, Slovenia

Flexible deployment, accelerated workflows.

Choose from our pre-designed assays or rapidly design a custom experiment - and get to answers faster.

Pre-designed assays:

[View online here ↗](#)

- ITR2
- CMV-E, *hrGFP*, hGH polyA
- *hRPP30*, *EGFP*, *kan*
- *hRPP30*, *EGFP*, *amp*
- Easily add a custom GOI to any existing assay

CGT Profiling Services:

[View online here ↗](#)

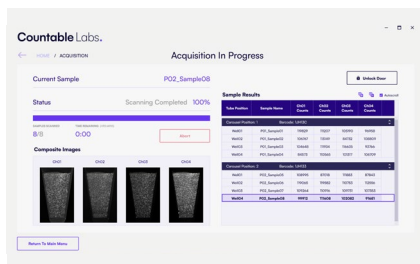
- Genome integrity & titer
- Residual DNA & full-length plasmid-derived impurities

Compatible with
challenging samples
including crude
lysates

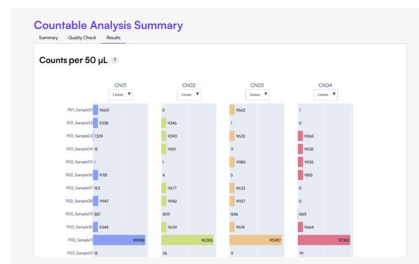
Universal
Multiplexing
technology enables
rapid customization
without expensive
probes or
optimization

Countable Software: built for GMP environments.

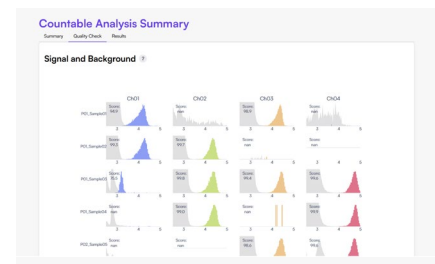
21 CFR Part 11 friendly software with end-to-end barcode tracking.



Monitor data acquisition
in real time.

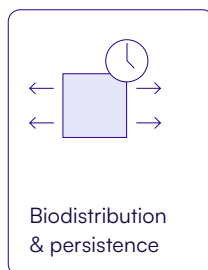
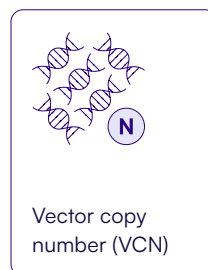
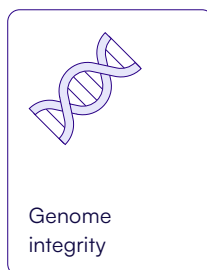
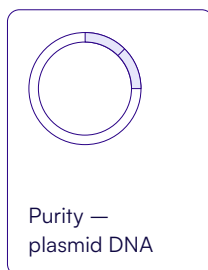
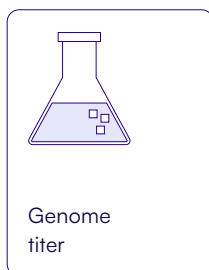


Get direct, automated counts,
ready to use immediately, with no
thresholding or bioinformatics.



Receive objective, automated QC
on every amplification event via
Sample ID score.

What we count.



More answers. Fewer reactions. Total confidence.

To learn more about Countable PCR, visit us at countablelabs.com.

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