CyFlow™ RP-300 and RP-310 Analyzers

State of the Art Ploidy and Genome Size Analysis

PRECISION IN EVERY CELL – INSIGHT FOR EVERY DECISION

www.sysmexmicrobiology.com

Dedicated to Genome Analysis

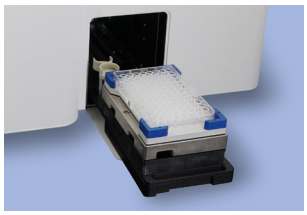
By understanding the genetic makeup of plants and animals, researchers can significantly improve productivity, disease resistance, and sustainability. Faster growth, stronger plants, seedless fruits, higher yields, and disease-resistant or more tender oysters are all linked to modifications in ploidy levels.

Aquaculture: Ploidy analysis enables the identification of triploidy in species. triploid species show faster growth rates, disease resistance, and better feed efficiency. This improves breeding, enhancing the sustainability and profitability of aquaculture operations.

Agriculture: In agriculture, genome analysis helps in the development of crop varieties that are more resilient to pests, diseases, and environmental stressors. This ensures higher yields and reduced dependency on chemical inputs.

Botanical Research: For botanical research, genome analysis facilitates the understanding of plant evolution, adaptation mechanisms, and biodiversity. This knowledge is crucial for conservation efforts, breeding programs, and the discovery of new plant-based products for pharmaceuticals, nutrition, and industry.

Sample analysis is carried out using the RP-300/310 and easy to scale up in combination with the AL-30 Autoloader. This allows automated high throughput analysis of multiple samples.



Key Benefits

- Standardized workflows open for customization.
- Fast time-to-result by high-speed sample loading.
- Objective clear-cut results by automated data analysis.
- Performance control with internal QC.

State of the Art nuclear DNA quantification

To learn more, go to sysmexmicrobiology.com

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