

HTP dsRNA production service

Acies Bio's high-throughput dsRNA production platform supports early-stage screening, validation, and development of RNAi-based agricultural solutions. Using microbial fermentation, it produces hundreds of custom dsRNA constructs in parallel, scalable from milligram to gram quantities.

This enables researchers and ag-biotech teams to rapidly test hypotheses, accelerate IP discovery, and scale cost-effectively toward field applications.

Workflow

01

Sequence Submission

The customer submits the target gene(s) and desired dsRNA regions

02

Design Optimization

Optional support for optimising target regions and avoiding off-targets

03

HTP Synthesis

Parallel microbial production of dsRNA constructs (custom plate layout)

04

Purification

Column-based RNA isolation, QC via UV and agarose gel and optional HPLC and RT-PCR analysis

05

Delivery

Stabilised RNA shipped in user-specified format and buffer

06

Scale-up Option

Larger-scale production is available upon selection of lead sequences

Key Capabilities

HTP synthesis

up to 96 different dsRNA sequences per run

Custom dsRNA lengths

from 200 to 1000 base pairs

Milligram-scale output per construct

(typical yield: 1 mg/construct)

Column-based purification

with >70% purity based on total RNA (HPLC analysis)

Quality control

via Nanodrop and agarose gel electrophoresis, optional HPLC or RT-PCR

Turnaround time

4-6 weeks, typical turnaround time per batch

Quality Control & Delivery

QC Parameters

dsRNA integrity confirmed by concentration by UV absorbance and gel, optional HPLC or RT-PCR analysis

Stabilisation

Customizable buffer and temperature-stabilised shipping format available

Data Package

Batch reports, concentration certificates, and sequence tracking included with each shipment

Founded:

2006, Ljubljana, Slovenia

Key numbers:

100 employees, 1/4 PhD
10,000 sq ft R&D
Up to 10 m³ fermentation facilities

Partnerships:

- >60 leading chemical & pharma cos, including multiple global top 10 cos.
- Top European universities & institutes Commercial scale
- 11 technologies scaled
- >25 novel bioproducts produced for biological activity evaluation
- 2 technology spin-out companies



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