

# Reduce Risk and Maximize Profit with Genics MultiScore

genics.com

## How MultiScore works for Hatchery Managers, Growout and Broodstock

We've created a simple to understand scorecard so farmers can quickly identify risk and opportunities to maximise profit.

#### For Hatchery Managers

Using our scorecard system **Multi**Score, hatchery managers can rapidly rank the health of their postlarvae in rearing tanks and make smart choices during pond stocking. It works by taking 3 samples per larval rearing tank with 20 heads in each sample (PL stage 6 onwards).

This method means you can be **95% confident** of detecting pathogens down to a point when it is present at 5% or more of the population. Importantly, the shrimp heads contain all the target organs for sensitive pathogen detection. A **Multi**Score is then given to each tank and they are ranked based on health.

- Tanks with healthy PL result in heightened production in ponds which equates to over USD \$52k/h in one study\*
- Healthy PL can be sold for a premium price
- Unhealthy PL can be excluded from stocking
- Shrimp MultiPath testing is USD \$49.50 per sample, meaning a USD \$148.50 investment per larval rearing tank has been demonstrated to deliver a USD \$52K increase in production in grow out ponds\*.



Example only - not actual client data.

\*Sellars, M.J., Cowley, J.A., Musson, D., Rao, M., Menzies, M., Coman, G.J., Murphy, M. 2019. Reduced growth performance of Black Tiger shrimp (Penaeus monodon) infected with infectious hypodermal and hematopoietic necrosis virus. Aquaculture 488: 160-166.

Genics

Be Empowered with your Data



#### Increase the size of your shrimp with Genics

#### For Growout

Shrimp **Multi**Path can detect pathogens up to 4 weeks before you'll see clinical signs and sick shrimp. It is **a farmers early warning system,** using data to help you make smart management choices including:

- Increase aeration, reduce shrimp stress
- Adjust feed rates
- Increase biosecurity (don't share nets, tell neighbours, exclude birds)
- Plan an early harvest if required.

During grow-out we recommend a minimum of 3 and up to 6 sample points to monitor pathogen presence and prevalence over time - **This is your early warning system.** 



Your first sampling will be at 25-35 DOC, the remaining sample points are then spaced out and placed 2-4 weeks apart. Genics will work closely with you to make data-driven decisions around when precisely to sample. Time intervals vary site to site, and season to season.

Typically, at each sample point 30 shrimp per pond are tested by pooling target organs from 5 shrimp per tube, 6 samples per pond, costing USD \$49.50 each or USD \$297 per pond. Knowing you have a pathogen like WSSV 4 weeks before you have clinically sick shrimp, or EMS/AHPND with early notice, empowers farmers to make data-driven management decisions that mitigate the risk of stock losses.

#### Put simply, an investment of USD \$297, could mean the difference between harvesting or not havesting at all.



#### Genics Health Management Solutions

Pathogens detected: White spot syndrome virus, Taura syndrome virus, Infectious myonecrosis virus, Laem-Singh necrosis virus, Yellow head virus - variant 1, Yellow head virus - variant 7, Hepatopancreatic parvovirus, Monodon baculovirus, Infectious hypodermal and haematopoietic necrosis virus, PirA & B toxin gene (AHPND/EMS/PmMS; Acute hepatopancreatic necrosis disease/Early mortality syndrome/Penaeus monodon mortality syndrome), Gill associated virus, Mourilyan virus, Enterocytozoon hepatopenaei and Decapod iridescent virus 1 with **Multi**Path **X**tra

## **Genics** Be Empowered with your Data

#### For Broodstock - Pond reared

Genics provides farmers with important data for Broodstock selection. Using our scorecard system, **Multi**Score, farmers can quickly identify **hero broodstock** in their ponds for spawning and maturation.

For pond reared broodstock\* it works by firstly identifying the healthiest ponds, and secondly identifying the healthiest stock from those ponds for maximum results as broodstock. When implemented this approach has been shown to increase growth of shrimp by ≥ 10%. Typically, 30 shrimp per pond are tested by pooling target organs from 5 shrimp per tube, 6 samples per pond, costing USD \$49.50 each or USD \$297 per pond.



#### Step 2, we identify the healthiest stock from those ponds for broodstock



Hiah

Nea/Low Medium

	WSSV	HPV_HDV	MBV	IHHNV	PirA	PirB	EHP	TSV	IMNV	LSNV	MoV	YHV1	YHV2_GAV	TOTAL	
Eye tag R84	5	5	5	5	5	5	5	5	5	5	5	5	5	65 🗸	2
Eye tag G63	5	5	5	3	1	1	5	5	5	5	5	5	5	55	
Eye tag B19	5	5	5	5	5	5	5	5	5	5	5	5	5	65 🗧	2
Eye tag G15	5	5	5	5	5	5	5	5	5	5	5	5	5	65 🗧	2
Eye tag B09	5	5	5	5	5	5	5	5	5	5	5	5	5	65 🔽	
Eye tag R11	5	5	5	4	5	5	5	5	2	5	5	5	5	61	

Examples only - not actual client data.

### Chris Eccleston

Marketing and Communciations Director

chris.eccleston@genics.com

\*For farms running SPF/SPR or closed system broodstock rearing contact us to understand how we can add value to your business model.

+61 437 025 821 melony.sellars@genics.com

**Dr. Melony Sellars** 

CEO