



GENICS

MultiScore

Reduce risk and maximize profits with Genics **MultiScore**

www.genics.com



MultiScore

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



Detects 18 pathogens in a single test



New automated processes ensure your data is delivered quickly



Data visualisation allows farmers to quickly rank PLs and broodstock

For Hatchery Managers

Using our scorecard system **MultiScore**, 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 **MultiScore** 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.

Unlock your potential with MultiScore



*Sellers, 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.

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The Higher the Score, the Healthier Your Tanks

	WSSV	HPV_HDV	MBV	IHHNV	PirA	PirB	ETZ	EHP	TSV	IMNV	LSNV	MoV	YHV1	GAV_YHV2	YHV7	DIV1	PvNV	CmNV	MrNV	TOTAL	
1	10	10	10	8	10	10	5	4	10	10	10	10	10	10	10	10	10	10	10	10	177
2	10	10	10	4	8	8	5	2	10	10	10	10	10	10	10	10	10	10	10	10	167
3	10	9	10	8	10	10	5	8	10	10	10	10	10	10	10	10	10	10	10	10	180
4	0	6	10	4	5	5	9	10	10	10	10	10	10	10	10	10	10	10	10	10	159
5	4	10	10	4	9	9	6	4	10	10	10	10	10	10	10	10	10	10	10	10	166
6	5	5	10	7	9	9	6	0	10	3	10	10	10	10	10	10	10	10	10	10	154



Example only - not actual client data.



For Growout

Shrimp **MultiPath™** 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.

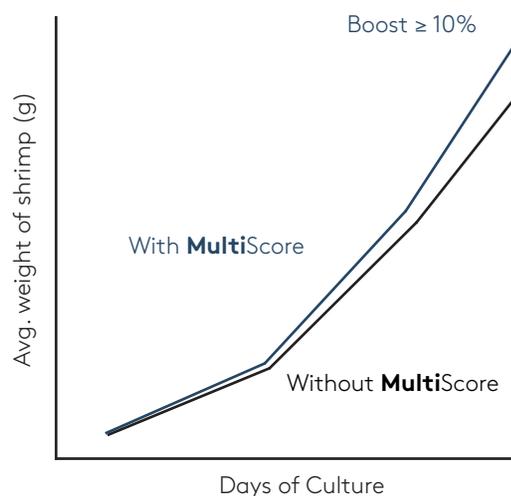
During grow-out we recommend between 3 to 6 sample points to monitor pathogen presence and prevalence over time — **This is your early warning system.**

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. Knowing you have a pathogen like WSSV four 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 in MultiScore, could be the difference between harvesting or not harvesting at all.

Increase the size of your shrimp with Genics



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For Broodstock — Pond reared

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

For pond reared broodstock* it works like this:

Step 1: We identify the healthiest ponds;

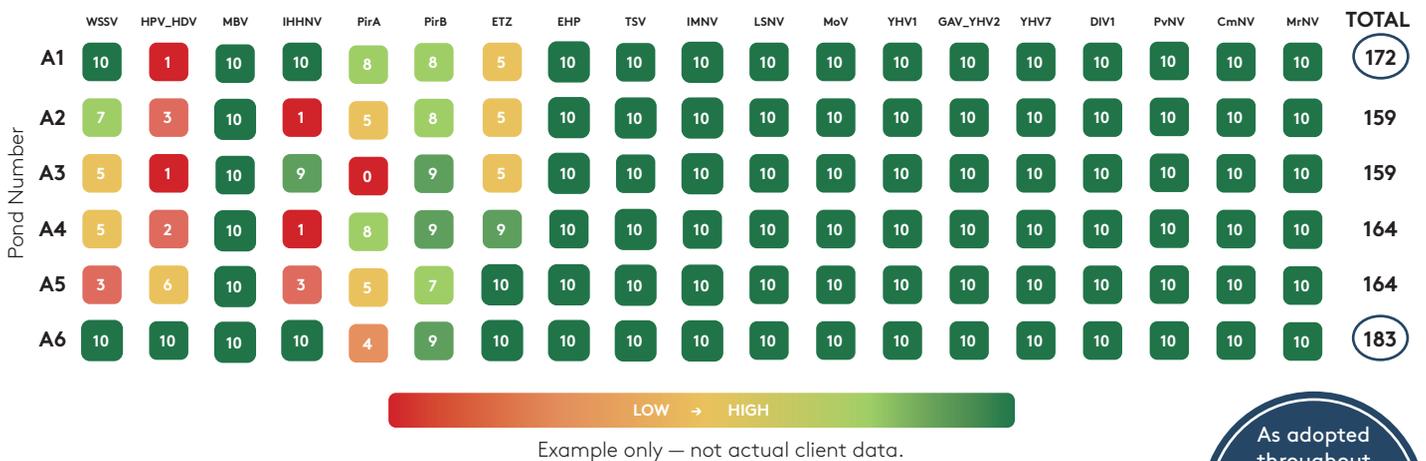
Step 2: We identify the healthiest stock from those ponds for maximum results as broodstock.

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.

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

Step 1: We identify the healthiest ponds

The Higher the Score, the Healthier Your Ponds



Step 2: We identify the healthiest stock from those ponds for broodstock

The Higher the Score, the Healthier Your Broodstock



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