

goSafe



MX3

Hydration Testing System





## The Problem

Simply put, dehydration can be dangerous and diminish results.

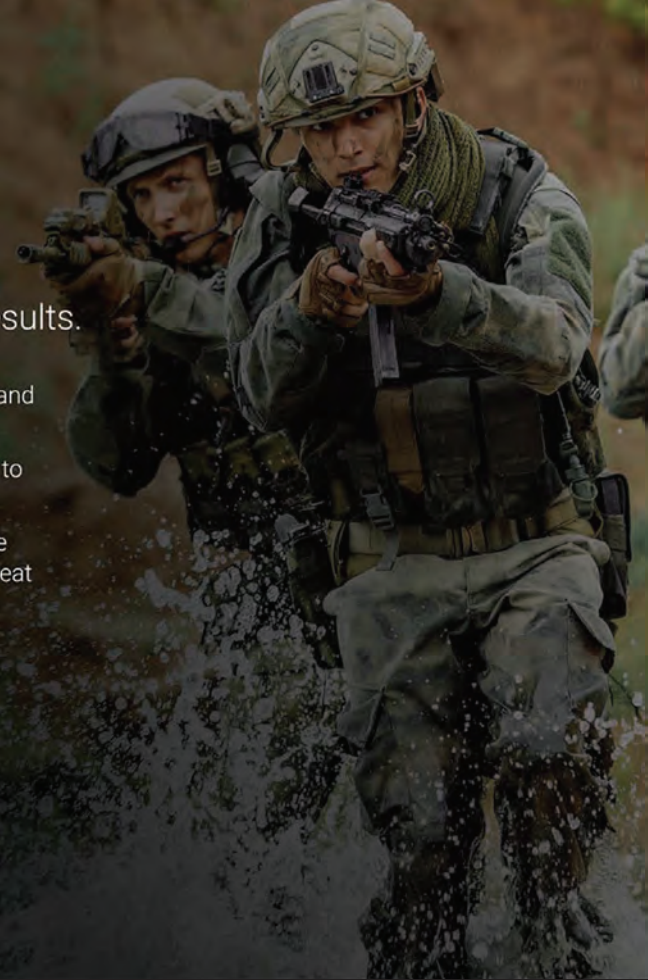
**Mental Performance:** Fluid deficiency can impair cognitive function, motor control, and cause confusion.

**Physical Performance:** Dehydration significantly degrades an individual's readiness to perform.

**Heat Stress:** Can lead to cramps, exhaustion, and fainting. More seriously can cause cardiovascular and respiratory complications, or kidney disorders. In severe cases heat stress can cause heat stroke or even death.

**Sodium Loss:** Everyone sweats differently. Without knowing the sodium content in your sweat loss, you cannot create a reliable rehydration protocol.

Understanding how to achieve optimal hydration  
is essential for peak performance and injury  
prevention.







## The Solution

Two revolutionary tests, one device.

MX3's Hydration Testing System is the first laboratory-grade, low cost, and rapid way to track salivary and sweat biomarkers anytime, anywhere. Results from our tests can be used to enhance safety and performance by encouraging both immediate action and long-term behavioral changes.

For the organization, the impact can be transformative.

**For the individual – it can be life saving.**

ENHANCED COGNITIVE  
PERFORMANCE



OPTIMIZING  
HYDRATION



ENHANCED PHYSICAL  
PERFORMANCE



REDUCED RISK  
OF INJURY

## The Device

Introducing the **MX3 LAB Pro**



## The Tests



### SALIVA HYDRATION TEST

**HOW IT WORKS:**  
The HTS measures salivary osmolarity and can estimate a person's hydration status based on their fluid balance.

**USE:**  
Real-time hydration testing enabling immediate action.

### SWEAT SODIUM TEST

**HOW IT WORKS:**  
Calculates an individual's fluid and electrolyte loss by analyzing sweat samples.

**USE:**  
Know exactly the right fluid and electrolyte supplement needs.



**GOAL:**  
Enhancing the individual's physical performance and cognitive abilities, and reducing their risk of injury.





# Hydration Test

Real-time testing of an individual's hydration levels enabling immediate action.

## How Testing Works

Step 1

Prepare



Insert a new test strip  
for each test.

Step 2

Test



Tap the strip to saliva  
on the tongue.

Step 3

Interpret



Receive and interpret  
results in seconds.

Step 4

Act



Take immediate  
corrective action.

# Sweat Test

Calculates an individual's fluid and electrolyte loss in order to develop a hydration plan.

## How Testing Works

Step 1

Apply



Clean inner forearm and apply sweat patch.

Step 2

Exercise



Perform a high-intensity workout for 30-60 minutes

Step 3

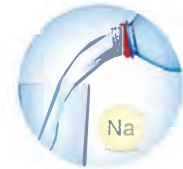
Measure



Test patch using MX3 LAB Pro. Repeat up to 4 times.

Step 4

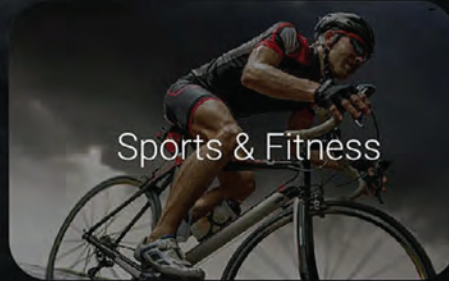
Act



Analyze the results and develop a hydration plan.

## Who We Serve

Versatile solution that can benefit a range of specialized industries.





## About Us

At MX3 Diagnostics, our mission is to make it easier for people to measure and manage their personal health.

Our team includes engineers, medical professionals, researchers, and professional athletes.

Our relevant expertise includes electrochemistry, biomedicine, microfluidics, product engineering and design, signal processing, and machine learning.

Our team is based in Austin, Minneapolis, and Melbourne.

# MX3

## Case Study

**Industry:** Drilling

**About:** Topdrill is a drilling company based in Kalgoorlie, Australia. Their field teams operate in extreme environments that can be very dangerous if the risks are not properly managed.

**Feedback:** We, as a company, can act immediately to prevent what could start out as an offside just needing a rest and a drink of water into a potentially fatal situation or worse. Having a control in place that allows for instant, actionable management of individuals hydration levels is a game changer.

**Takeaway:** Enhanced worker safety

*Our people are our most important assets. Having a control in place that allows for instant actionable management of individuals hydration levels is a game changer."*

**VIKI PIERCE**, OHS MANAGER



MX3

# Case Study

**Industry:** Mining

**About:** BHP is a world-leading global resources company based in Melbourne, Australia. The company manages more than 80,000 employees and contractors worldwide. Below is feedback from a response coordinator for BHP Geoscience after giving his teams MX3 technology.

**Feedback:** "We have 16 [MX3 PRO] units in use in our department alone, and I've helped a few other work groups with getting them and how to use / set up with their teams, and they've been brilliant."

Removing the hygiene risks and paperwork / data-entry requirements has really improved the frequency of testing and buy-in from team members. The excellent and quick support from MX3 has been fantastic!"

**RYAN STAMPFLI,**  
FIELD RESPONSE COORDINATOR, BHP GEOSCIENCE

**Takeaway:** MX3 improves testing frequency, cleanliness and comfort for geologists and miners.



# BHP



goSafe

MX3

Need help? Have questions?

[Sales@goSafe.com](mailto:Sales@goSafe.com)

For more information, please visit our website at  
[www.goSafe.com/HeatStress](http://www.goSafe.com/HeatStress)

[in](https://www.linkedin.com/company/goSafe)@goSafe [f](https://www.facebook.com/gosafesupply)/gosafesupply [ig](https://www.instagram.com/gosafesupply)@gosafesupply