Qualitative Test Strip Phosphatesmo MI

Scott van Niekerk, 23/06/2021

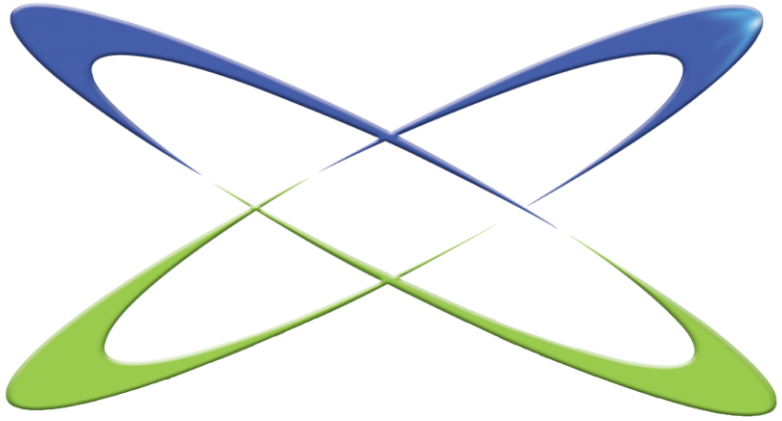
Agenda

MACHEREY-NAGEL & SEPARATIONS

The Purpose of the Phosphatase Test and a Product Presentation on Phosphatesmo MI

Questions & Answers

Introduction to Separations

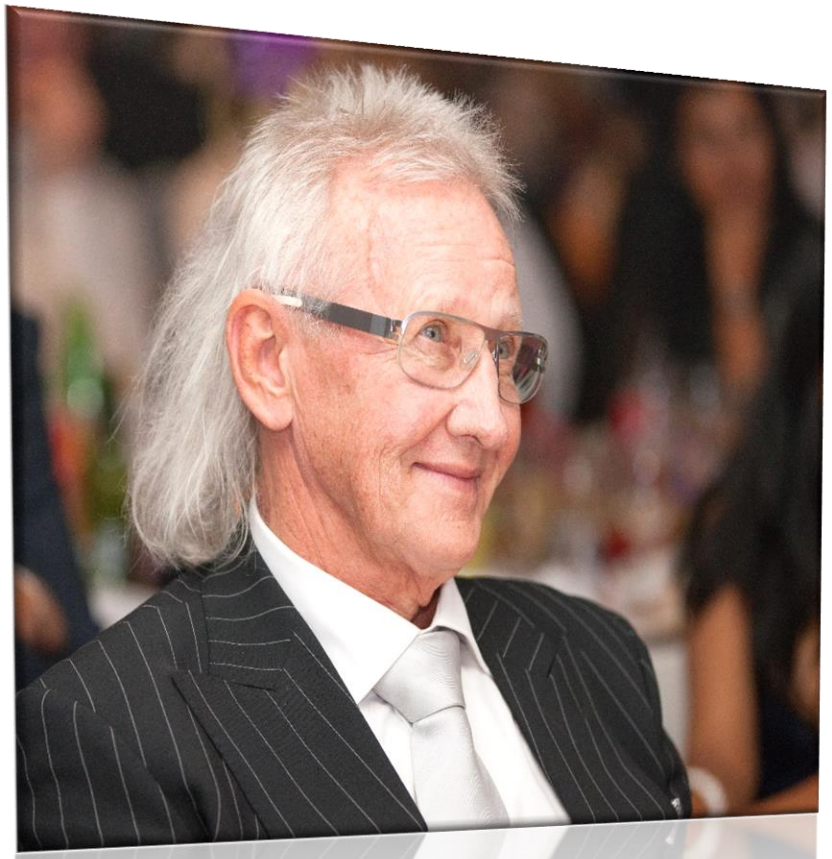


SEPARATIONS

Simply Spectacular

SEPARATIONS
Simply Spectacular

COMMITTED TO GIVE YOU SPECTACULAR PRODUCTS, SERVICE & SUPPORT.



Promolab (Pty) Ltd was founded by Paul Queisser and started trading as SEPARATIONS on 1 September 1989 to serve South African scientists with a highly focused, innovative and synergistic line of chromatography supplies.

The need for this service had been clearly identified by him during his previous involvement as founder and director of Saarchem (Pty) Ltd, South Africa's first comprehensive laboratory chemicals manufacturer since 1977.

So, with chromatography in his head and passion for his customers in his heart, Paul set out to bring the most complete and high-quality combination of chromatography consumables to South African scientist possible.

Since then, this concept of customer-centric products and exceptional support has continued until today and has been the driving force behind the development of the Sales Divisions that outline the specific workflows we focus on.
Separations continues to drive innovation and value by always attracting the most cutting-edge and innovative suppliers into its portfolio, in order to deliver spectacular and complete workflow solutions to our discerning customers.

SEPARATIONS
Simply Spectacular

1989

Started trading. The focus was on delivering a complete workflow solution to the Chromatography market

1992

Introduction of a complete workflow solution for the Water and Environmental Market: Formation of **Chromtechniques** and **Watertechniques** as Divisions within Separations

1994

The **Export** department is created to sell our solutions to Sub-Saharan Africa

1995

Biotechniques Division is formed to provide a complete workflow solution to the Life Sciences market

2008

We branch out into Biopharmaceutical Manufacturing through the formation of the **Biopharmtechniques** Division

2011

Entered the equipment market with Laboratory Automation. Three new departments are formed: **Robotiques** Division for Sales & **Service** and **Applications** Departments for support

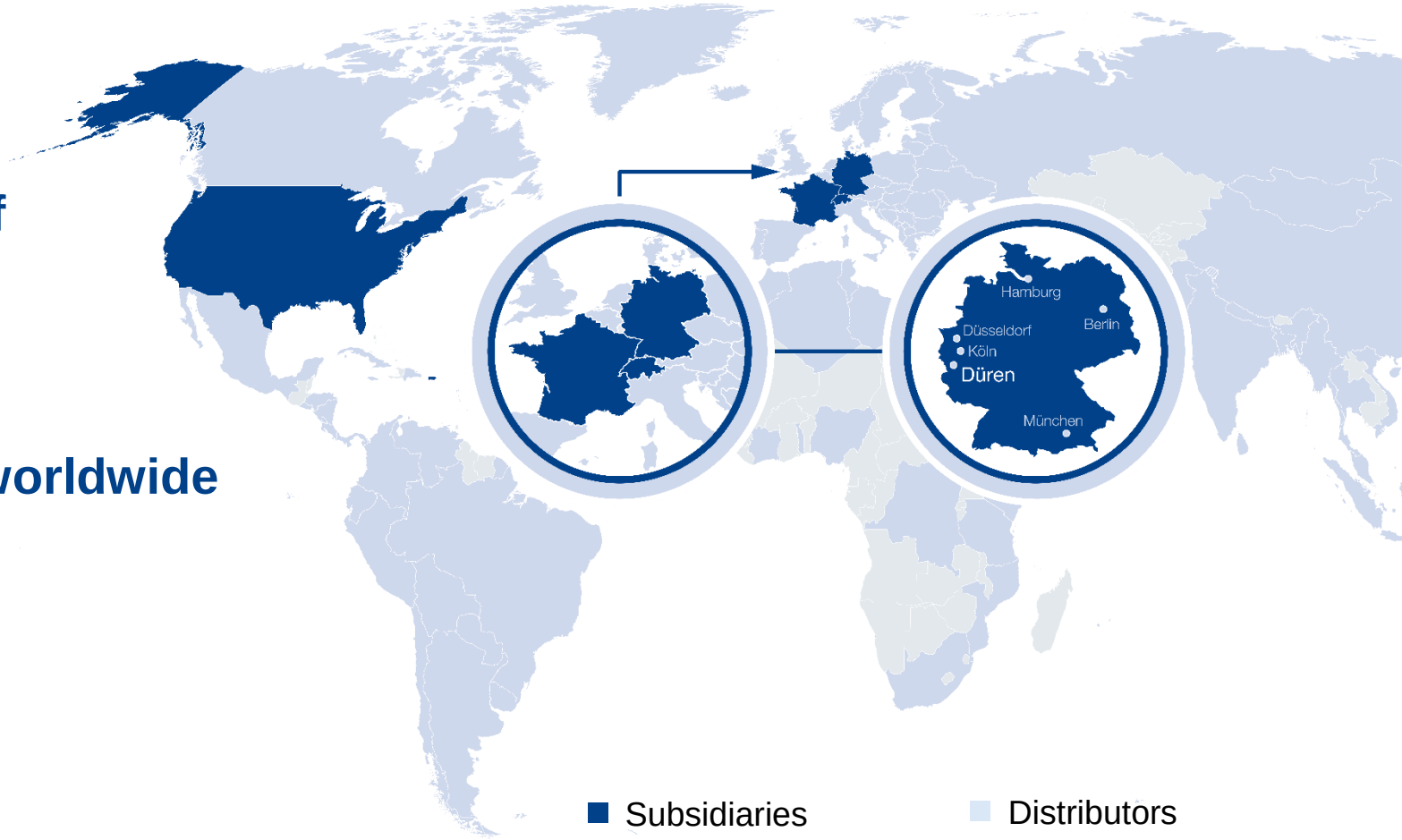
2020

The Clinical market receives a focused team with the formation of the **Diagnostiques** Division

Company

MACHEREY-NAGEL today

- 4th Generation family-owned
- Founded as manufacturer of special filter papers 1911
- Subsidiaries in FR, CH, US
- More than 150 distributors worldwide
- More than 700 employees
- More than 25.000 products
- Turn over 150 Mio. €



Company

MACHEREY-NAGEL quality

- Highest quality standards
- Products made in Germany
- Certified quality

Product presentation

Phosphatesmo MI and the Phosphatse Test

Product presentation

The purpose of the phosphatase test:

- **The phosphatase test allows for one to define that milk has been fully pasteurized**
- **Alkaline Phosphatase (ALP) as an enzyme is naturally present in all raw milks. As the heat stability of ALP is greater than that of many common pathogens which may be present in milk. The absence of alkaline phosphatase in milk is an indicator that milk has been held at the correct temperature and for the correct time to be fully pasteurized.**
- **MN Phosphatesmo MI is a valuable auxiliary QC tool for a quick check of correct pasteurization of milk as it is specifically designed to detect for the presence of Alkaline Phosphatase (ALP).**
- **MN Phosphatesmo MI tests for the presence of this enzyme. If it is present above a certain threshold value it will change color (Yellow). If not, it will remain unreacted and thus indicate appropriate pasteurization has been achieved.**

Product Information

Product Information

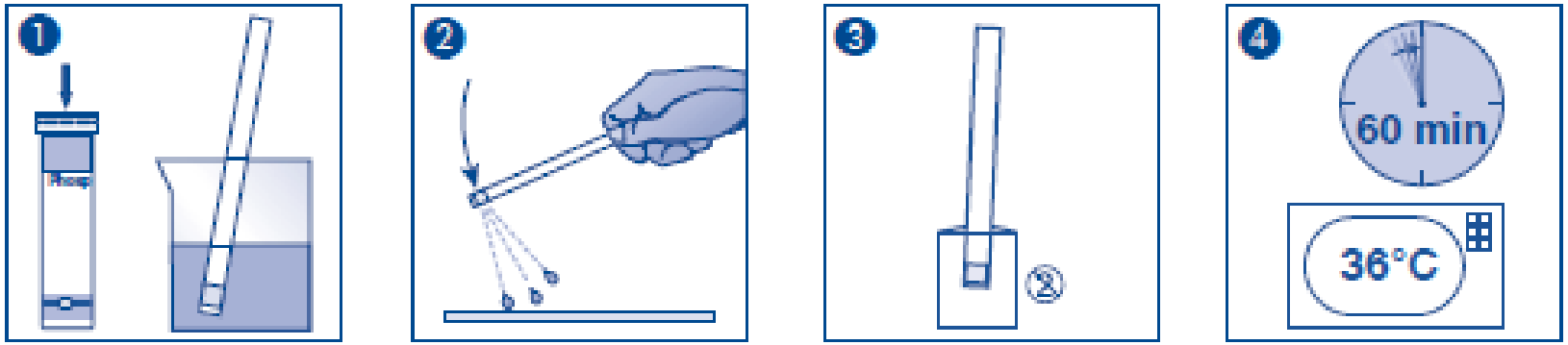
Phosphatesmo MI – Ref 906 12

Platform	**Qualitative test paper**
Parameter	**Phosphatase (ALP)**
Detection limit	**Phosphatase - 0.5 % raw milk in pasteurized milk / 300 U/L alkaline phosphatase in pasteurized milk**
Color change	**Phosphatase - white → yellow**
Length	**85 mm**
Width	**10 mm**
Shelf life (from production)	**1 Year**
Storage temperature	**2−8 °C**
Scope of delivery	**50 test strips in a tube**
Hazardous material	**No**

Product Information

Instructions for use:

1. Dip test strip briefly into the milk
2. Shake of excess liquid
3. In order to prevent the test pad of the test strip from drying out, place the test strip in the enclosed PE bag. Use a new bag for each test to avoid cross-over contamination
4. Incubate the test strip at 36 °C for 1 h



Product Information

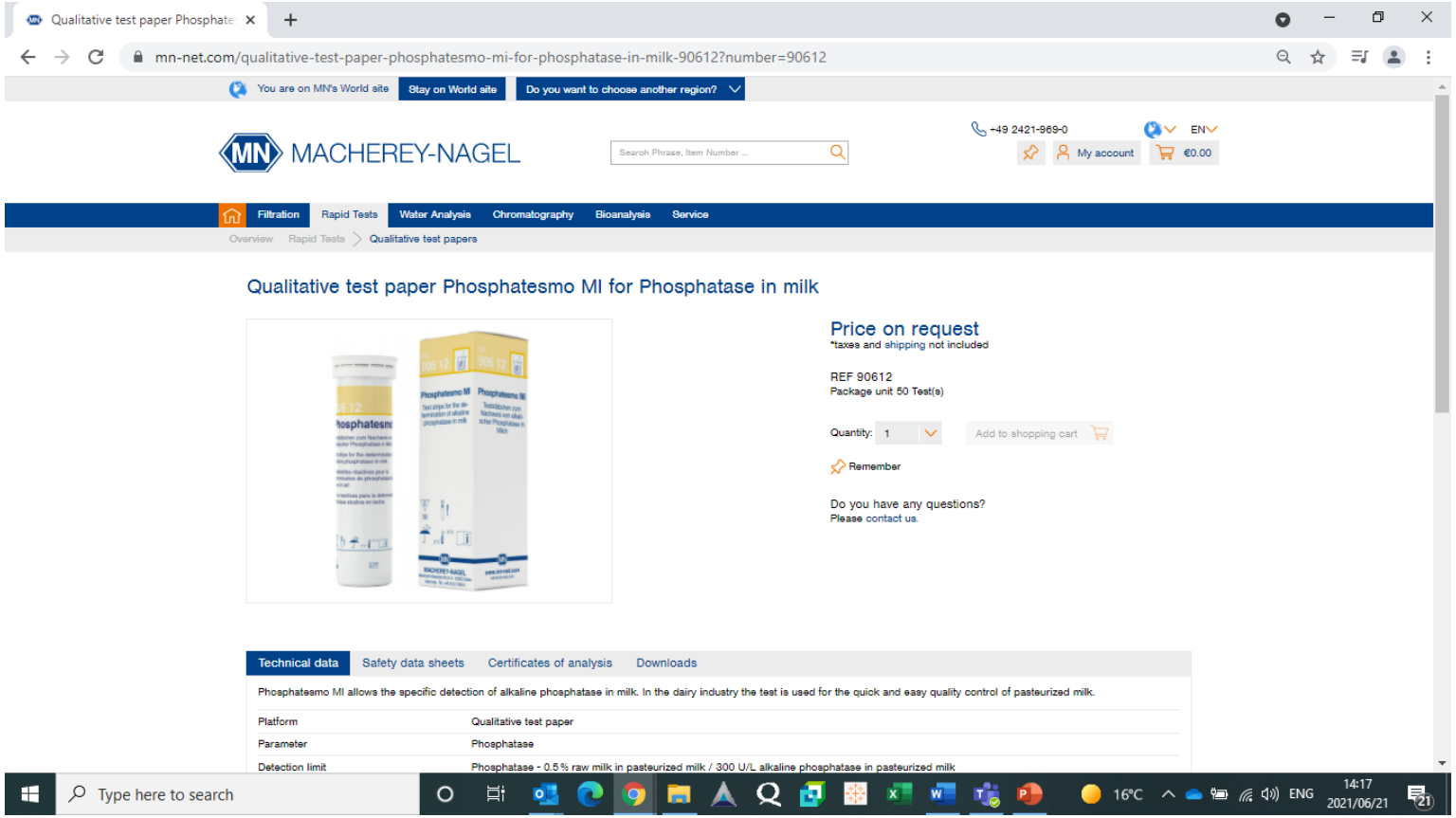
Interpretation of Results:

- In the presence of alkaline phosphatase (ALP) the test field turns yellow. The incubation can now be stopped.
- For control measurement use raw milk and heated milk.
- A yellow coloration indicates, that raw milk is present, or the milk was not sufficiently heated.
- No coloration indicates that the pasteurization was correctly completed.

Product Information

Get further information on our website

- Flyer
- Technical data
- https://www.mn-net.com/
- http://separations.co.za/



Scott van Niekerk, 23/06/2021

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- https://en.wikipedia.org/wiki/Alkaline_phosphatase

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