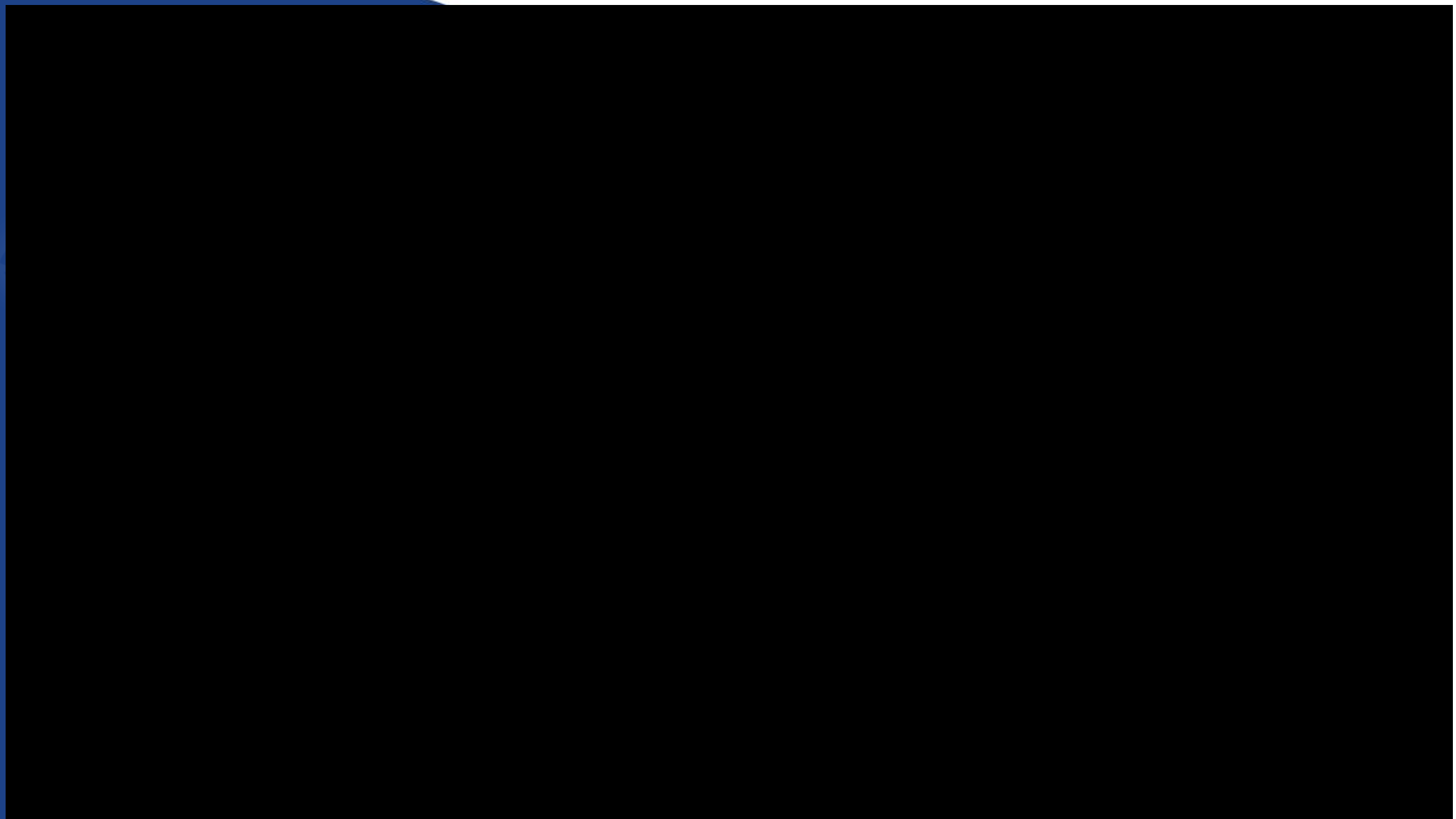


**EMPOWERMENT
THROUGH
KNOWLEDGE**

Dr Angela Buys
2025





150 million



Total doses sold in the last 7 years
across all the products we manufacture

All of our products
are **SCIENTIFICALLY
PROVEN** to aid
**SUPPORT AND
PREVENTION** of
some of the most
DEADLY DISEASES
and conditions.



18 Total products in our portfolio
(including Sterile Diluent and Water for Injection)

9

**Total CMO
products**



Over the years we have **contract
manufactured 9 products for
local, multinational, and
African** vaccine manufacturers.

Tons shipped per year,
in the last 3 years

Over 120 tons of our Design
Biologix vaccines shipped
locally and across Africa,
excluding CMO volumes.



**120
TONS
shipped**



The products we manufacture are exported to countries beyond South Africa, including **Thailand**, the **UK**, **South Korea**, **Greece**, **Macedonia**, **Turkey**, **Indonesia**, **Bangladesh**, **Israel**, the **UAE**, **Namibia**, **Zambia**, **Kenya**, and **Botswana**.

Countries our products are currently registered for commercial use: **South Africa**, **Namibia**.

Definition of autogenous vaccines

Design Biologix

- Custom made vaccines
- Farm specific
- Pathogen becomes the antigen for the formulation
- Bacterial, viral or parasitic in nature
- Adjuvanted inactivated vaccine formulations
- Specific vaccination protocols

- Ineffective licenced vaccines
- Unsuitable licenced vaccines
- Antimicrobial resistance management
- Complementary tools to licenced vaccines
- Excludes zoonotic organisms and organisms that are responsible to controlled and notifiable diseases
- Monovalent formulations

Autogenous vaccines: Facts

Design Biologix

- Unregistered and mostly unregulated by many countries
- Not a replacement strategy for licenced vaccines
- No safety or efficacy tests
- Strict internal in-process and final product quality controls required

- No approved South African guidelines specific to autogenous vaccine manufacture or regulation
- General lack of approved and harmonised guidelines for autogenous vaccine manufacture and use
- Absence of control often lead to misuse and unethical practices

- Disease diagnosis
- Collect samples – Proper technique
- Storage during transport
- Transport procedures
- Adequate background information
- Veterinary motivation should a licence vaccine exist
- Sample submission to diagnostic laboratory

- Adequate tests requested
- Biosafety level classification of the organism vs the diagnostic laboratory vs the manufacturer
- Isolate sent to the manufacturer for manufacturing
- Manufacturer knowledge and experience
- Good documenting systems
- Veterinary script
- Safety statement

- Willing farmer
- Access to veterinary services
- Experienced diagnostic laboratory
- Transport conditions
- Access to local licenced manufacturing facilities
- Good scientific foundation in manufacturing
- Adequate Quality Management Systems

Autogenous vaccines: Challenges

Design Biologix

- General unwillingness to vaccinate
- Veterinary costs involved
- Education and sensitisation of the market
- Over-regulation

angela@designbio.co.za

<https://designbio.co.za/>

No Bull!

Don't be too concerned
with the opinions of udders.
If you always put your best
hoof forward, you'll
moooooove mountains!



ANIMAL VACCINES MANUFACTURER



ANIMAL
VACCINES
MANUFACTURER

THANK YOU

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