

# POWER-Kits™

for Freund's Adjuvant

Perfect Emulsions Every Time  
Affordable for Everybody

Antigen

+

Adjuvant



Perfect  
Emulsions



Watch how to easily prepare  
perfect emulsions

Shaken, not Stirred



# 1

**Add it!**



# 2

**Shake it!**



# 3

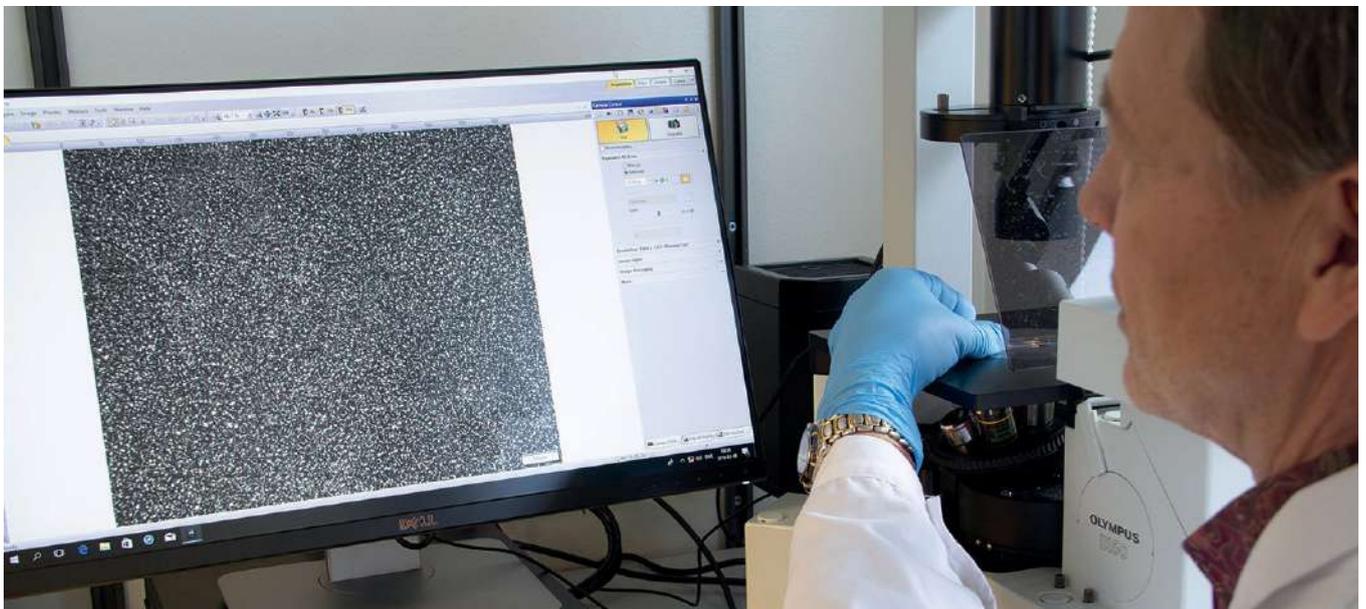
**Use it!**

**PERFECT EMULSIONS**

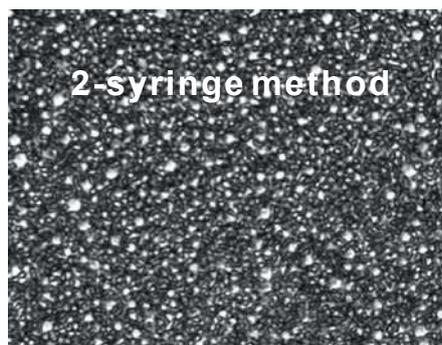


## POWER-Kit™ (patent pending) can be used for

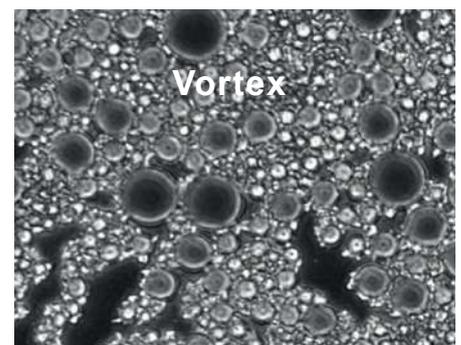
- ✓ Preparation of emulsions with Freund's Adjuvant + Antigens
- ✓ Safe and homogeneous preparation of *M.tuberculosis* suspensions
- ✓ Monoclonal & polyclonal antibody production
- ✓ DHT experiments
- ✓ Preclinical animal models for research & in industry
  - Rheumatoid Arthritis (CIA)
  - Multiple Sclerosis (EAE)
  - Autoimmune Uveitis (EAU)
  - Myasthenia Gravis (MG)
  - Cancer Immunotherapy
  - etc...



POWER-Kit™



2-syringe method



Vortex

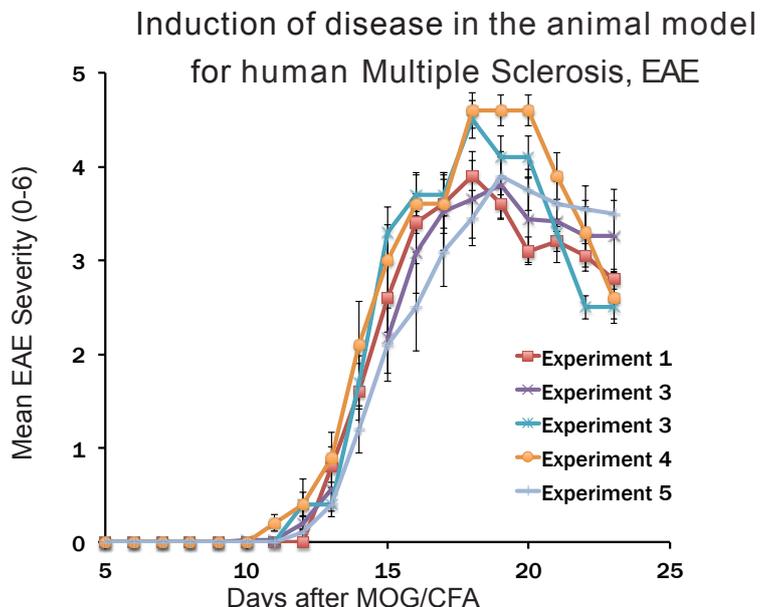
### Quality control

The CEO of BTB Emulsions, Thomas Bäckström, has years of experience working with pre-clinical animal models and emulsions. With POWER-Kit™ and a homogenizer one can produce optimal emulsions every time. The quality of the emulsion is best determined by using a Bright-Field microscope (400x) and/or a particle size analyzer.

## Consistent Quality

Consistent quality emulsions every time, yields consistent results.

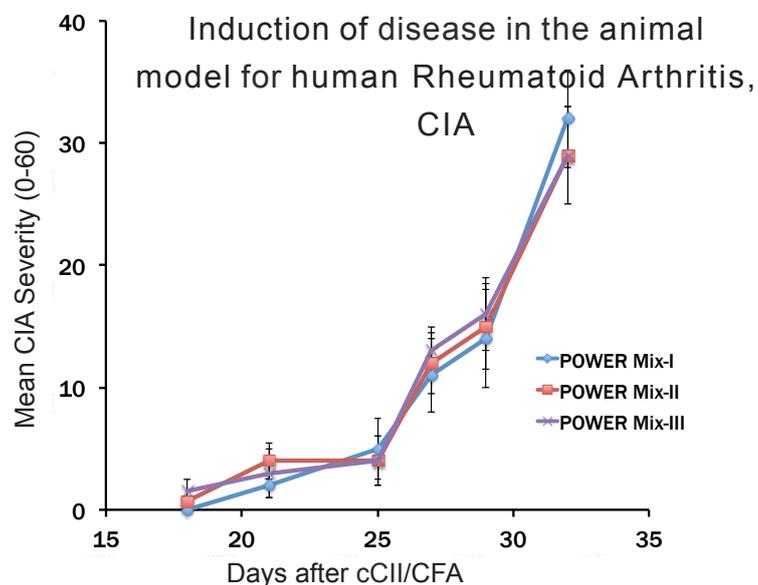
Emulsions were prepared fresh each time, using POWER-Kits™. Five different experiments were set up, at least 1 month apart. Mice, C57BL/6J, were bought from Janvier and were delivered 1 week before each experiment (5 in each group). Experiments were performed by staff from BTB Emulsions.



## Top Performance

Top performance every time, yields homogenous and stable emulsions.

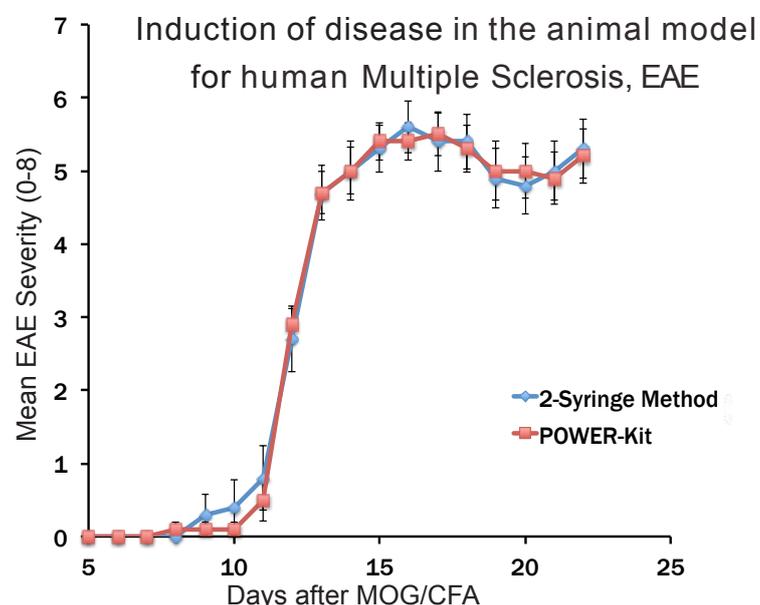
Emulsions were prepared using POWER-Ki t™. DBA/1 mice (10 in each group) were immunized on day 0 and boosted on day 28, then observed for disease induction. The experiment was performed by an independent CRO (Redoxis AB, Lund, Sweden).



## Interchangeable Method

Indistinguishable results compared with the “2-syringe” method.

Emulsions were prepared using POWER-Kit™ or the traditional 2-syringe method. C57BL/6J mice (10 in each group) were immunized day 0 and observed for disease induction. The experiment was performed by an independent CRO (Redoxis AB, Lund, Sweden).



## More advantages with **POWER-Kit™**

### **Flexible**

Prepare 2-8 ml of emulsion with your adjuvant and antigen of choice.

### **Affordable**

Compared with the 2-syringe method, break-even after about 310 immunisations.

### **Efficient**

Prepare 3 different emulsions in 10 minutes.

### **Simple**

Easy to learn and little “hands-on” time.

### **Safe**

No risk of accidental exposure or Repetitive Stress Injuries (RSI).

### **Minimal waste**

No more doubling of the amount needed, as with the 2-syringe method.

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” The POWER-kit™ system has greatly improved the preparation of emulsions, by reducing the time and improving the consistency. Our lab is really impressed by the results and will continue to use the system for all our immunisations.

Professor Richard Williams, Kennedy Institute, Oxford, UK

” Since shifting to using the POWER-kit™ for preparation of emulsions, we have decreased variability due to people specific preparations. After introducing BTB Emulsions’ method and kits, our pre-clinical models are now more robust and standardised.

Nina Woodworth, COO, Redoxis, Lund, Sweden

## Direct Cost for the EAE model

Comparing the cost of the POWER-Kit™ method with the 2-syringe method after 800 immunisations. In this example, costs associated with research for human Multiple Sclerosis, using the EAE model have been calculated.

### Example

#### POWER-Kit™

##### Method

SHAKING MACHINE

€ 2,990

POWER KIT™

€ 299\*

REAGENTS

About € 20/immunisation

800 immunisations

**€ 19,289**

#### 2-Syringe

##### Method

SYRINGE, STOPCOCK etc

about € 10

REAGENTS

About € 30/immunisation\*\*

800 immunisations

**€24,010**

**Saves € 4,721**

**Break-even point about  
310 immunisations**

\* Up to 800 immunisations.

€ 349 for Profit organisations.

\*\* Calculation on a 50% loss of emulsion.

Even more loss with smaller volumes.



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