

We believe that each patient should receive the treatment that is most beneficial for the patient. This means, treatment with the most effective medication and at the optimal dose. We consider therapeutic drug monitoring pivotal for all patients treated with biologics, as serum concentration and anti-drug antibody measurements help to realize truly personalized medicine and dosing.

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**Sanquin**

Blood Bank  
Diagnostic Services BV  
Plasma Products BV  
Research  
Reagents BV



# Bioanalysis of biologics

Biologic	Level		ADA	
	Service	MabTrack	Service	MabTrack
Abatacept	✓	—	—	—
Adalimumab	✓	✓	✓	✓
Certolizumab	✓	—	✓	—
Etanercept	✓	—	—	—
Golimumab	✓	—	✓	—
Infliximab	✓	✓	✓	✓
Natalizumab	✓	—	✓	—
Omalizumab	✓	—	✓	—
Rituximab	✓	—	✓	—
Tocilizumab	✓	—	✓	—
Ustekinumab	✓	—	✓	—
Vedolizumab	✓	—	✓	—
Nivolumab	✓	—	✓	—
Pembrolizumab	<i>In development</i>			
Secukinumab				

**References**

1. Pouw, M.F. et al. Ann Rheum Dis. 2015; 74(3):513-518
2. Van den Bemt B.J.F. et al. Ann Theum Dis. 2008; 67;1697-1701
3. Vande Casteele N. et al. Gastroenterology. 2015 Jun; 148(7):1320-9
4. Menting S. P. et al. JAMA Dermatology 2015; Mar25
5. L'Ami, M. et al. Ann Rheum Dis. 2017; Published Online First, 22-10-2017



**The following Sanquin products can be purchased from EUROIMMUN:**

- MabTrack Level Adalimumab, ED 4110-9601
- MabTrack Level Infliximab, ED 4120-9601
- MabTrack Anti-Drug-Antibody Adalimumab, ED 4111-4801 G
- MabTrack Anti-Drug-Antibody Infliximab, ED 4121-4801 G



# Sanquin's solution for therapeutic drug monitoring of biologics

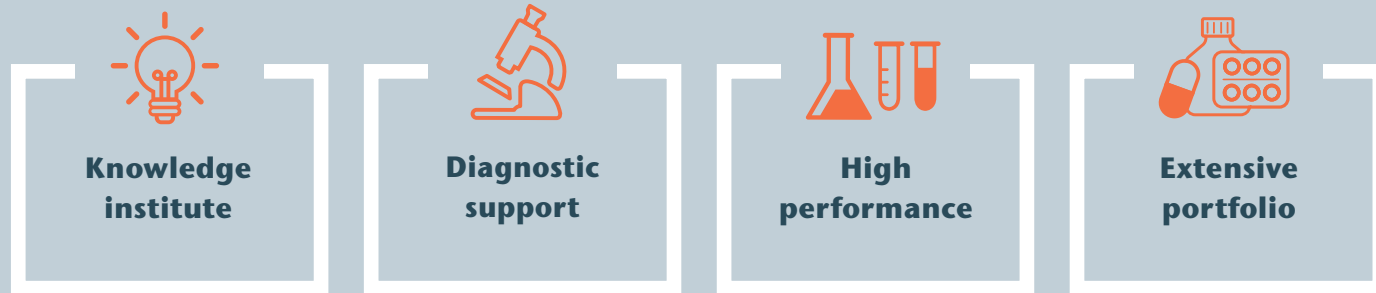
Monitor drug levels and antibody responses elicited by biologics via our lab Sanquin Diagnostic Services, or use our CE IVD certified **MabTrack** ELISA kits.



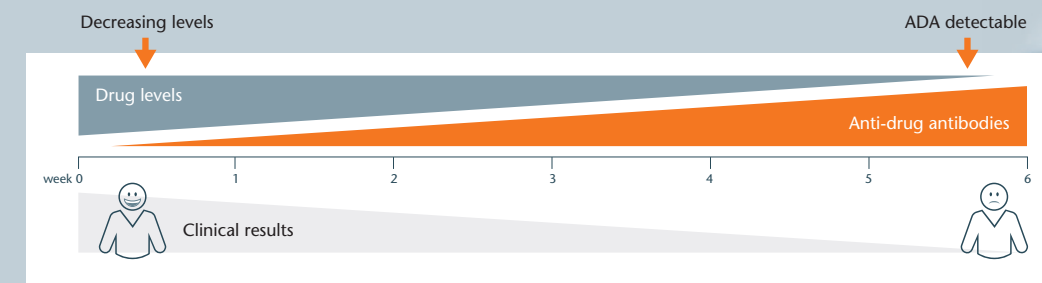
## High performance testing at Sanquin

Golden standards	Ready-to-use kits	Cost-efficient	Optimal therapeutic range
High sensitivity high specificity	Suitable for automation	Choose for service testing or kits	Personalized treatment

## Your reliable partner for integral services

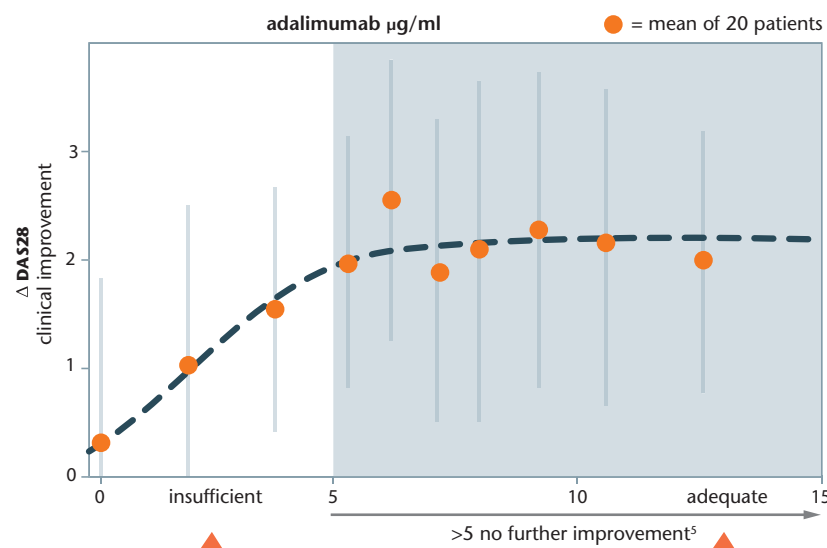


## Why should you monitor patients?



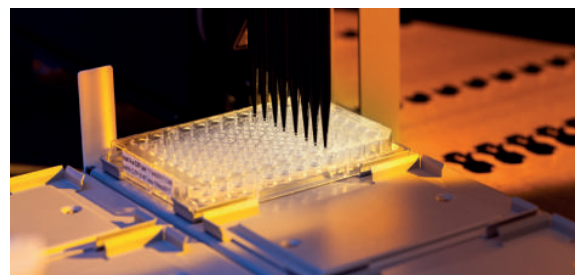
## Benefits of drug monitoring

- **Personalized treatment**  
Treatment protocol support by measuring drug levels/anti-drug antibodies
- **Signal overexposure**  
Accurate patient monitoring
- **Improvement quality of life**  
Awareness of under- and overtreatment prior to the occurrence of clinical symptoms
- **Cost-effectiveness**  
Determine ineffective treatment which allows timely switching

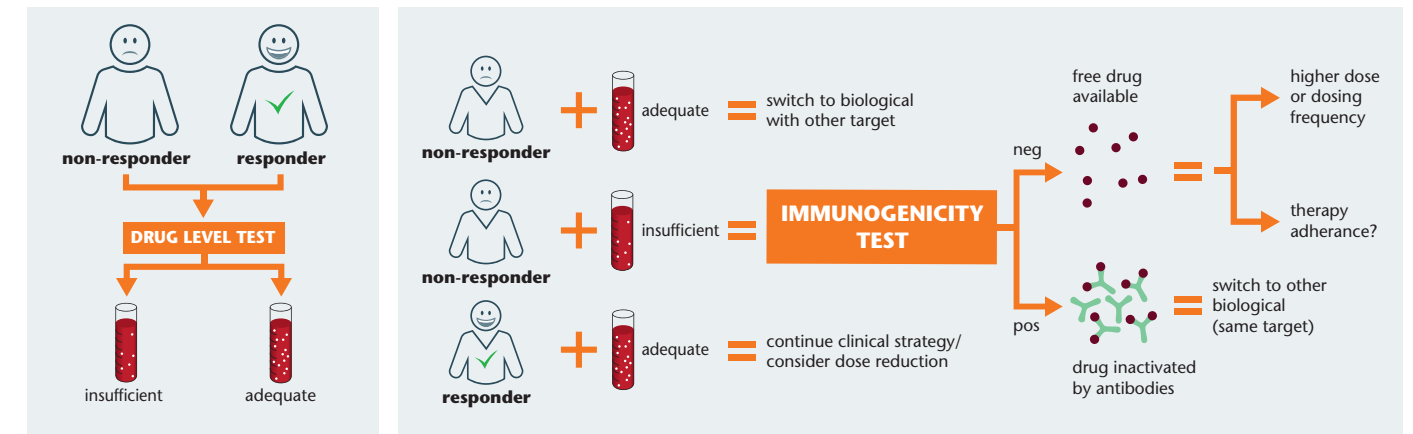


- Intensify treatment
- Check for therapy adherence
- Test for anti-drug antibodies
- Reduce dose intensity
- Prolong treatment interval

Published correlation effects	RA	IBD	Psoriasis
adalimumab	5 - 8 mg/l <sup>1</sup>	Clinical studies ongoing	3.5 - 7.0 mg/l <sup>4</sup>
infliximab	≥ 3 mg/l <sup>2</sup>	3 - 7 mg/l <sup>3</sup>	Clinical studies ongoing



## Personalized treatment



Note: This is only a general scheme. Kinetics, dosing schedules and effective levels differ between biologics and diseases. Not for use as sole input in clinical decisions.

## Pick the most beneficial option matching your needs

