

Materials List for

# Simultaneous Detection of Different Antibody Classes in a Multiplexed Serological Test

Julia Häring<sup>\*1</sup>, Tanja Michel<sup>\*1</sup>, Matthias Becker<sup>1</sup>, Daniel Junker<sup>1</sup>, Tatia Tchitchagua<sup>2</sup>, Olaf Leschnik<sup>2</sup>, Berit Lange<sup>3,4</sup>, Stefanie Castell<sup>3,4</sup>, Gérard Krause<sup>3,4</sup>, Monika Strengert<sup>3</sup>, Alex Dulovic<sup>1</sup>, Nicole Schneiderhan-Marra<sup>1</sup>

<sup>1</sup>NMI Natural and Medical Sciences Institute at the University of Tübingen

<sup>2</sup>Department of Neurology, Sächsisches Krankenhaus Rodewisch

<sup>3</sup>Department of Epidemiology, Helmholtz Centre for Infection Research

<sup>4</sup>German Centre for Infection Research (DZIF)

\*These authors contributed equally

Correspondence to: Nicole Schneiderhan-Marra at [Nicole.Schneiderhan@nmi.de](mailto:Nicole.Schneiderhan@nmi.de)

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## Materials

Name	Company	Catalog Number	Comments
<b>Antibodies and Detection Reagents</b>	Source	Catalog Number	
Biotinylated Goat Anti-Human IgG	Jackson ImmunoResearch (Dianova)	109-066-098	
Brilliant Violet 421-Streptavidin	BD Biosciences	563259	
Donkey Anti-Human IgM	Jackson ImmunoResearch (Dianova)	709-116-073	
<b>Borrelia Antigens</b>	tgcBIOMICS (Bingen, Germany)		
<b>Coupling Reagents</b>			
1-Ethyl-3-[3-dimethylaminopropyl]carbodiimide hydrochloride (EDC)	Thermo Scientific Pierce	77149 ProteoChem (100 mg)	
10x PBS	Fisher Scientific	BP399-4	
BSA	Carl Roth	T844.3	
MES (2-ethanesulfonic acid; zwitterionic buffer)	Carl Roth	4256.2	
Na2HPO4	Carl Roth	4984.1	
ProClin300	Sigma	48914-U	
Sulfo-NHS (N-hydroxysulfosuccinimide)	Thermo Scientific Pierce	24510 (500 mg)	
Triton X-100	Thermo Scientific	85111	
<b>Instrumentation and Ancillary Lab Supplies</b>	Source		
384-well plate	Corning, Cat# 3570		
96-well deep-well plates	ThermoFisher Scientific, Cat# 95040450		
96-well half-area plates	Corning, Cat# 3690		
BioTek 405 TS Plate Washer	BioTek Instruments/Agilent Technologies, Santa Clara, CA		
BioTek MultiFlo FX Plate Washer	BioTek Instruments/Agilent Technologies, Santa Clara, CA		
DynaMag Spin Magnet (for isolating beads in microcentrifuge tubes)	ThermoFisher, Cat# 12320D		

Flexmap 3D (two-channel, single-reporter instrument)	Luminex Corp., Austin, TX		
KingFisher Magnetic Particle Processor (for isolating beads in 96-well plates)	ThermoFisher, Cat# A31508		
MagPlex Microspheres (magnetic, fluorescent, 6.5- $\mu$ m-diameter beads)	Luminex Corp., Austin, TX		
SmartBlock Plates	Eppendorf, Cat# 5363000039		
ThermoMixer C	Eppendorf, Cat# 5382000015		
ThermoTop	Eppendorf, Cat# 5308000003		
xMAP Intelliflex (three-channel, dual-reporter instrument)	Luminex Corp., Austin, TX		