

APPLICATION NOTE  
MINDRAY BS-300  
**α1 – ANTITRYPSIN AUT – KIT**

**1. Reagent preparation**

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

**2. Instrument setting**

<i>Parameters</i>							
No.	*	Assay	AAT	Type	Endpoint	Reaction	Ascending
Unit	mg/dL	Precision	2	Prim. Wave.	340	Sec. Wave.	0
Sample Vol.	3	R1 Vol.	400	R2 Vol.	95	Lin. Limit	20
Inc. Time	10	Antigen		Response		S. Volume	0
R. Time	-1 / 20	Substrate	0	L Limit	0	Ratio	0
				U Limit	0		
R1 Blank		Mix. R Blank		Linearity		Full Name	AAT
L Limit	0	L Limit	0	L Limit	0	Print No.	1
U Limit	0	U Limit	0	U Limit	600		

\* entered by the user

**3. Ordering information**

AAT/AUT-000 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

APPLICATION NOTE  
MINDRAY BS-300  
**α1 – ACID GLYCOPROTEIN SD (AUT – KIT)**

**1. Reagent preparation**

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

**2. Instrument setting**

<b>Parameters</b>			
No	**	Test	AGP
Method	Non Linear Multi Point	Direction	Ascend
Unit	mg/dL	Decimals	1
Prim. Wav.	340 nm	Sec. Wav.	670 nm
Dilution Ratio	10		
Sample Volume	15	R1 vol	180
R2 volume	30	Line Limit	-
Incubation	10	Antigen -	
Reaction	8 – 30	Substrate	
Response			
Lower	0	Full name	AGP
Upper	0	Print no.	**
R1 Blank		Mix. R. Blank	
Lower	0	Lower	0
Upper	0	Upper	0
Linearity			
Lower	0.00	Factor	0
Upper	300.0	Speed	0
<b>Calibration</b>			
Request Rule	Logit Log 5P		
Replicates	2	Difference	0
Interval	0	Blank Response	0 – 0
Sensitivity	0	Coeff Difference	0
Correlation	0	Non Linear SD	0

\*\* entered by the user

**3. Ordering information**

AGP/AUT-000 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

# APPLICATION NOTE

## MINDRAY BS-300

### ASL (O) N-DIL (AUT – KIT)

#### 1. Reagent preparation

Sample: Ready for use  
 Buffer R1: Ready for use  
 Latex R2: Ready for use  
 Calibrator: Dilute the ASL(O) Standard Super High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use ASL(O) Standard Set. Use Saline 9 g/L as zero point.

#### 2. Instrument setting

<i>Parameters</i>							
No.	*	Assay	ASO	Type	Endpoint	Reaction	Ascending
Unit	IU/mL	Precision	0	Prim. Wave.	630	Sec. Wave.	0
Sample Vol.	3	R1 Vol.	300	R2 Vol.	50	Lin. Limit	20
Inc. Time	10	Antigen		Response		S. Volume	0
R. Time	-1 / 20	Substrate	0	L Limit	0	Ratio	0
				U Limit	0		
R1 Blank		Mix. R Blank		Linearity		Full Name	ASO
L Limit	0	L Limit	0	L Limit	0	Print No.	1
U Limit	0	U Limit	0	U Limit	400		

\* data entered by the user

#### 3. Ordering information

ASL/AUT-000 1 x 10 mL Latex  
                   5 x 25 mL Buffer  
 ASL/STH-001 ASL Standard High, 1 mL  
 ASL/SST-001 ASL Standard Super High, 1 mL  
 ASL/STS-4X1 ASL Standard Set, 4 x 1 mL  
 ASL/CON-001 ASL Control, 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

# APPLICATION NOTE

## MINDRAY BS-300

# COMPLEMENT C3 AUT – KIT

### 1. Reagent preparation

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

### 2. Instrument setting

<i>Parameters</i>							
No.	*	Assay	C3	Type	Endpoint	Reaction	Ascending
Unit	mg/dL	Precision	2	Prim. Wave.	340	Sec. Wave.	0
Sample Vol.	3	R1 Vol.	250	R2 Vol.	40	Lin. Limit	20
Inc. Time	10	Antigen		Response		S. Volume	0
R. Time	-1 / 20	Substrate	0	L Limit	0	Ratio	0
				U Limit	0		
R1 Blank		Mix. R Blank		Linearity		Full Name	C3
L Limit	0	L Limit	0	L Limit	0	Print No.	1
U Limit	0	U Limit	0	U Limit	500		

\* entered by the user

### 3. Ordering information

C3C/AUT-000 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

# APPLICATION NOTE

## MINDRAY BS-300

# COMPLEMENT C4 AUT – KIT

### 1. Reagent preparation

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

### 2. Instrument setting

<i>Parameters</i>							
No.	*	Assay	C4	Type	Endpoint	Reaction	Ascending
Unit	mg/dL	Precision	2	Prim. Wave.	340	Sec. Wave.	0
Sample Vol.	4	R1 Vol.	250	R2 Vol.	40	Lin. Limit	20
Inc. Time	10	Antigen		Response		S. Volume	0
R. Time	-1 / 20	Substrate	0	L Limit	0	Ratio	0
				U Limit	0		
R1 Blank		Mix. R Blank		Linearity		Full Name	C4
L Limit	0	L Limit	0	L Limit	0	Print No.	1
U Limit	0	U Limit	0	U Limit	100		

\* entered by the user

### 3. Ordering information

C4C/AUT-000 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

# APPLICATION NOTE

## MINDRAY BS-300

# CERULOPLASMIN SD (AUT – KIT)

### 1. Reagent preparation

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

### 2. Instrument setting

Parameters			
No	**	Test	CER
Method	Non Linear Multi Point	Direction	Ascend
Unit	mg/dL	Decimals	1
Prim. Wav.	340 nm	Sec. Wav.	670 nm
Dilution Ratio	10		
Sample Volume	20	R1 vol	180
R2 volume	30	Line Limit	-
Incubation	10	Antigen -	
Reaction	8 – 30	Substrate	
Response			
Lower	0	Full name	CER
Upper	0	Print no.	**
R1 Blank		Mix. R. Blank	
Lower	0	Lower	0
Upper	0	Upper	0
Linearity			
Lower	0.00	Factor	0
Upper	600.0	Speed	0
Calibration			
Request Rule	Logit Log 5P		
Replicates	2	Difference	0
Interval	0	Blank Response	0 – 0
Sensitivity	0	Coeff Difference	0
Correlation	0	Non Linear SD	0

\*\* entered by the user

### 3. Ordering information

CER/AUT-000 1 x 10 mL Antiserum  
                   5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

# APPLICATION NOTE

## MINDRAY BS-300

# COMPLEMENT C3 SD (AUT – KIT)

### 1. Reagent preparation

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

### 2. Instrument setting

Parameters			
No	**	Test	C3C
Method	Non Linear Multi Point	Direction	Ascend
Unit	mg/dL	Decimals	1
Prim. Wav.	340 nm	Sec. Wav.	670 nm
Dilution Ratio	10		
Sample Volume	15	R1 vol	180
R2 volume	30	Line Limit	-
Incubation	10	Antigen -	
Reaction	8 – 30	Substrate	
Response			
Lower	0	Full name	C3C
Upper	0	Print no.	**
R1 Blank		Mix. R. Blank	
Lower	0	Lower	0
Upper	0	Upper	0
Linearity			
Lower	0.00	Factor	0
Upper	500.0	Speed	0
Calibration			
Request Rule	Logit Log 5P		
Replicates	2	Difference	0
Interval	0	Blank Response	0 – 0
Sensitivity	0	Coeff Difference	0
Correlation	0	Non Linear SD	0

\*\* entered by the user

### 3. Ordering information

C3C/AUT-000 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

# APPLICATION NOTE

## MINDRAY BS-300

### CRP AUT – KIT

#### 1. Reagent preparation

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the CRP Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use CRP Standard Set. Use Saline 9 g/L as zero point.

#### 2. Instrument setting

<i>Parameters</i>							
No.	*	Assay	CRP	Type	Endpoint	Reaction	Ascending
Unit	mg/dL	Precision	2	Prim. Wave.	340	Sec. Wave.	0
Sample Vol.	20	R1 Vol.	260	R2 Vol.	30	Lin. Limit	20
Inc. Time	10	Antigen		Response		S. Volume	0
R. Time	-1 / 20	Substrate	0	L Limit	0	Ratio	0
				U Limit	0		
R1 Blank		Mix. R Blank		Linearity		Full Name	CRP
L Limit	0	L Limit	0	L Limit	0	Print No.	1
U Limit	0	U Limit	0	U Limit	22		

\* entered by the user

#### 3. Ordering information

CRP/AUT-000 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 CRP/STH-001 CRP Standard High ,1 mL  
 CRP/STS-5X1 CRP Standard Set, 5 x 1 mL  
 CRP/COL-001 CRP Control Low , 1 mL  
 CRP/COH-001 CRP Control High , 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL



# APPLICATION NOTE

## MINDRAY BS-300

# HAPTOGLOBIN SD (AUT – KIT)

### 1. Reagent preparation

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

### 2. Instrument setting

Parameters			
No	**	Test	HAP
Method	Non Linear Multi Point	Direction	Ascend
Unit	mg/dL	Decimals	1
Prim. Wav.	340 nm	Sec. Wav.	670 nm
Dilution Ratio	10		
Sample Volume	10	R1 vol	180
R2 volume	30	Line Limit	-
Incubation	10	Antigen -	
Reaction	8 – 30	Substrate	
Response			
Lower	0	Full name	HAP
Upper	0	Print no.	**
R1 Blank		Mix. R. Blank	
Lower	0	Lower	0
Upper	0	Upper	0
Linearity			
Lower	0.00	Factor	0
Upper	500.0	Speed	0
Calibration			
Request Rule	Logit Log 5P		
Replicates	2	Difference	0
Interval	0	Blank Response	0 – 0
Sensitivity	0	Coeff Difference	0
Correlation	0	Non Linear SD	0

\*\* entered by the user

### 3. Ordering information

HAP/AUT-000 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

APPLICATION NOTE  
MINDRAY BS-300  
**IgA KIT**  
2<sup>nd</sup> GENERATION

**1. Reagent preparation**

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

**2. Instrument setting**

<i>Parameters</i>							
No.	*	Assay	IGA	Type	Endpoint	Reaction	Ascending
Unit	mg/dL	Precision	2	Prim. Wave.	340	Sec. Wave.	0
Sample Vol.	3	R1 Vol.	400	R2 Vol.	90	Lin. Limit	20
Inc. Time	10	Antigen		Response		S. Volume	0
R. Time	-1 / 20	Substrate	0	L Limit	0	Ratio	0
				U Limit	0		
R1 Blank		Mix. R Blank		Linearity		Full Name	IGA
L Limit	0	L Limit	0	L Limit	0	Print No.	1
U Limit	0	U Limit	0	U Limit	700		

\* entered by the user

**3. Ordering information**

104C002 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

# APPLICATION NOTE

## MINDRAY BS-300

### IgG AUT – KIT

#### 1. Reagent preparation

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

#### 2. Instrument setting

<i>Parameters</i>							
No.	*	Assay	IGG	Type	Endpoint	Reaction	Ascending
Unit	mg/dL	Precision	2	Prim. Wave.	340	Sec. Wave.	0
Sample Vol.	3	R1 Vol.	380	R2 Vol.	115	Lin. Limit	20
Inc. Time	10	Antigen		Response		S. Volume	0
R. Time	-1 / 20	Substrate	0	L Limit	0	Ratio	0
				U Limit	0		
R1 Blank		Mix. R Blank		Linearity		Full Name	IGG
L Limit	0	L Limit	0	L Limit	0	Print No.	1
U Limit	0	U Limit	0	U Limit	3000		

\* entered by the user

#### 3. Ordering information

IGG/AUT-000 1 x 10 mL Antiserum  
                   5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

APPLICATION NOTE  
MINDRAY BS-300  
**IgM KIT**  
2<sup>nd</sup> GENERATION

**1. Reagent preparation**

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

**2. Instrument setting**

<i>Parameters</i>							
No.	*	Assay	IGM	Type	Endpoint	Reaction	Ascending
Unit	mg/dL	Precision	2	Prim. Wave.	340	Sec. Wave.	0
Sample Vol.	3	R1 Vol.	350	R2 Vol.	60	Lin. Limit	20
Inc. Time	10	Antigen		Response		S. Volume	0
R. Time	-1 / 20	Substrate	0	L Limit	0	Ratio	0
				U Limit	0		
R1 Blank		Mix. R Blank		Linearity		Full Name	IGM
L Limit	0	L Limit	0	L Limit	0	Print No.	1
U Limit	0	U Limit	0	U Limit	600		

\* entered by the user

**3. Ordering information**

106C002 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

APPLICATION NOTE  
MINDRAY BS-200  
**MICROALBUMIN KIT**  
**2<sup>ND</sup> GENERATION**

**1. Reagent preparation**

Sample: Centrifuged urine, ready for use.  
Buffer R1: Ready for use  
Antiserum R2: Ready for use  
Calibrator: Dilute the Microalbumin Standard successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Microalbumin Standard Set. Use Saline 9 g/L as zero point.

**2. Instrument setting**

<b>Test Parameters</b>			
Test name	MAL2	R1 Volume	250
No	*	R2 Volume	40
Full name	*	Sample Volume	16
Standard No.		R1 Blank	
Reaction type	Endpoint	Mixed Reag. Blank	
Primary Wavelength	340	Linearity Range	
Secondary Wavelength	-	Linearity Limit	0
Dicection	Ascending	Substrate Limit	0
Reaction Time	8 - 28	Factor	0
Incubation Time	9	Prozone Check	
Units	mg/L	q1:      q2:      q3:      q4:	
Precision	0.1	PC:      Abs:	
<b>Calibration Parameters</b>			
Rule	Multi Point	Calibrator 1	Water
Sensitivity		Calibrator 2	**
Replicates	2	Calibrator 3	**
Interval (day)		Calibrator 4	**
SD		Calibrator 5	**
Blank Response		Calibrator 6	MAL STD
Error Limit			
Coefficient	0		

\*\* entered by the user

**3. Ordering information**

102C002      1 x 10 mL Antiserum  
                  5 x 25 mL Buffer  
MAL/STD-001 Microalbumin Standard, 1 mL  
MAL/STS-5X1 Microalbumin Standard Set, 5x1 mL  
MAL/CON-001 Microalbumin Control, 1 mL

# APPLICATION NOTE

## MINDRAY BS-300

### PREALBUMIN N-DIL (AUT – KIT)

#### 1. Reagent preparation

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Dilute the Protein Standard High successively 1:2 in Saline 9 g/L in order to set up a calibration curve or alternatively use the ready for use Protein Standard Set. Use Saline 9 g/L as zero point.

#### 2. Instrument setting

Parameters			
No	**	Test	HAP
Method	Non Linear Multi Point	Direction	Ascend
Unit	mg/dL	Decimals	1
Prim. Wav.	340 nm	Sec. Wav.	670 nm
Dilution Ratio	-		
Sample Volume	3	R1 vol	270
R2 volume	30	Line Limit	-
Incubation	10	Antigen -	
Reaction	8 – 30	Substrate	
Response			
Lower	0	Full name	HAP
Upper	0	Print no.	**
R1 Blank		Mix. R. Blank	
Lower	0	Lower	0
Upper	0	Upper	0
Linearity			
Lower	0.00	Factor	0
Upper	500.0	Speed	0
Calibration			
Request Rule	Logit Log 5P		
Replicates	2	Difference	0
Interval	0	Blank Response	0 – 0
Sensitivity	0	Coeff Difference	0
Correlation	0	Non Linear SD	0

\*\* entered by the user

#### 3. Ordering information

PAL/AUT-000 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 MPS/STH-001 Protein Standard High, 1 mL  
 MPS/STS-5x1 Protein Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL

# APPLICATION NOTE

## MINDRAY BS-300

# TRANSFERRIN N-DIL (AUT – KIT)

### 1. Reagent preparation

Sample: Ready for use  
 Buffer R1: Ready for use  
 Antiserum R2: Ready for use  
 Calibrator: Transferrin Standard Set ready for use. Use Saline 9 g/L as zero point.

### 2. Instrument setting

<b>Parameters</b>			
No	**	Test	TRF
Method	Non Linear Multi Point	Direction	Ascend
Unit	mg/dL	Decimals	1
Prim. Wav.	340 nm	Sec. Wav.	670 nm
Dilution Ratio	-		
Sample Volume	3	R1 vol	330
R2 volume	30	Line Limit	-
Incubation	10	Antigen -	
Reaction	8 – 30	Substrate	
Response			
Lower	0	Full name	TRF
Upper	0	Print no.	**
R1 Blank		Mix. R. Blank	
Lower	0	Lower	0
Upper	0	Upper	0
Linearity			
Lower	0.00	Factor	0
Upper	600.0	Speed	0
<b>Calibration</b>			
Request Rule	Logit Log 5P		
Replicates	2	Difference	0
Interval	0	Blank Response	0 – 0
Sensitivity	0	Coeff Difference	0
Correlation	0	Non Linear SD	0

\*\* entered by the user

### 3. Ordering information

TRF/AUT-000 1 x 10 mL Antiserum  
 5 x 25 mL Buffer  
 TRF/STS-5x1 Transferrin Standard Set, 5 x 1 mL  
 139F003 Immunology Control Low, 1mL  
 139F002 Immunology Control High, 1mL