



Vasopressin Direct RIA

Procedure

RK-VPD

A Commitment to Diagnostics

Pre-Analytics

Samples required: EDTA plasma

Sample volume: 400 µl (per assay tube).

Sample collection: Collect blood (≤ 2 ml) into EDTA venipuncture tubes. After collection place sample immediately on ice. Within 10 min. centrifuge samples at 2000 x g and 2-8°C for 15 min.

Sample storage: $\leq -20^\circ\text{C}$

Note: appropriate sample collection is essential for accurate results.

Standardization:

The Arginine Vasopressin Calibrator is weighed in material which was calibrated against WHO reference preparation 77/501.

Quality Control:

The accuracy of each calibrator in use is controlled every 3 months by comparing with the WHO reference preparation.

Limitations and Trouble Shooting:

- patient samples which are not properly collected and handled may cause inaccurate results. Freezing of plasma samples immediately will preserve the integrity of vasopressin concentration at the time of sampling.
- given that initial concentration of exceeds concentration of highest Calibrator (80 pg/ml) samples should be diluted with phosphate buffer (for further limitations cf Instruction for Use).

RIA Procedure

Pipetting Scheme

	Total	NSB	MB	Calibrators (1.25 - 80 pg/ml)	Controls	Samples
Phosphate Buffer	--	700	650	250	250	250
Calibrators	--	--	--	400	400	400
Controls	--	--	--	400	400	400
Samples	--	--	--	400	400	400
Antiserum	--	--	50	50	50	50

Vortex; then incubate for 24 hrs (± 3 hrs) at 18 - 28°C *

Tracer	100	100	100	100	100	100
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Vortex; then incubate for 24 hrs (± 3 hrs) at 18 - 28°C *

2nd antibody	--	100	100	100	100	100
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Vortex; then incubate for 20 min (± 1 min) at 18 - 28°C *

Add 1 ml of deionized water (except T tubes); centrifuge for 5 min at 1000 x g at 2 - 8°C

Aspirate supernatant (except T tubes) and count for 1 min

Indications of all numbers in table refer to µl

Total= Total activity
 NSB= Non specific Binding, Blank
 MB= Maximum Binding

* assay performs best at 20°C

Time to Result: within ~3 working days





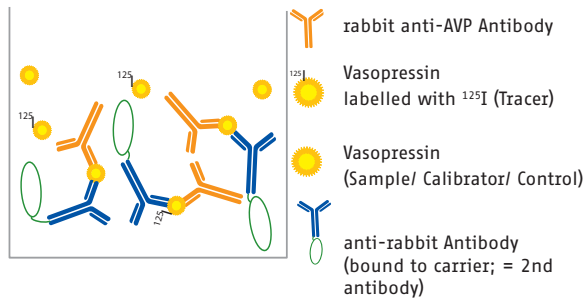
Vasopressin Direct RIA

Characteristics RK-VPD

A Commitment to Diagnostics

Intended Use

The Vasopressin direct RIA from BÜHLMANN is intended for the direct and quantitative determination of Arginine Vasopressin ([Arg8]-Vasopressin) by a double antibody radio immunoassay (RIA) in EDTA plasma.



Number of Tests

100	Tests per kit	RK-VPD
1	Total	
1	NSB (non specific binding)	
1	MB (maximal binding)	
7	Calibrators	(1.25 - 80 pg/ml)
2	Controls	(low ~ 2-5 pg/ml) (high ~20-30 pg/ml)
1	run	38 patient samples
2	runs	26 patient samples
3	runs	14 patient samples

Total = Total activity
 NSB = Non specific Binding, Blank
 MB = Maximum Binding

Assay Performance Data

Intra-assay precision **6.0 %**
 n = 3; range: 4.0 - 19.1 pg/ml
 10 duplicates; CV range: 2.3- 9.5 %

Inter-assay precision **9.9 %**
 n = 2; range: 1.8 - 12.3 pg/ml
 10 different runs; CV range: 6.8-13.0 %

Spiking recovery (mean of four values) **101.8 %**
 n = 1; spiked with 2.6 - 70 pg/ml synthetic Vasopressin
 recovery range: 91 - 109%; mean: 102%

Analytical sensitivity **0.75 pg/ml**
 2 SD (20 duplicates) subtracted from MB (mean)

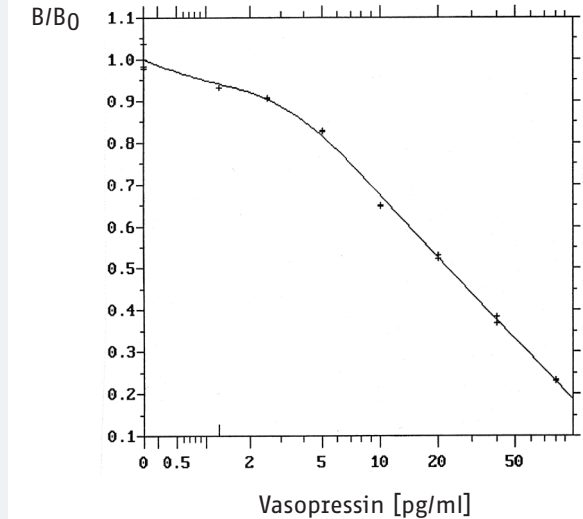
Functional sensitivity **1.30 pg/ml**
 Intra-assay %CV <10%

Specificity (50% binding) **<0.01%**
 related compounds tested:

- Lysine Vasopressin
- Desmopressin (DDAVP)
- Oxytocin
- Vasotocin

Typical Standard Curve

(assay performs best at 20°C)



Ordering code:
 RK-VPD 100 tests

CE-marked product



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