















## 9. LIMITATIONS OF PROCEDURE

### Effect of Anticoagulants

To determine whether anticoagulants interfere with the assay, blood was collected from 30 rats into plain and EDTA vacutainer tubes. All samples were assayed by the *Prolactin rat ELISA* procedure, with the following results.

(EDTA) = 1.05 (Serum) – 9.3 ng/ml  $r = 0.978$

Means: 3.68 ng/ml (Serum)  
3.78 ng/ml (EDTA)

A limited study with citrated and heparinized plasma show comparable results to EDTA plasma.











### "High-Dose Hook"-Effect

Rat sera containing up to 300 ng/ml Prolactin were measured with the *Prolactin rat ELISA* assay. A High-Dose Hook effect could not be observed.

## 10. REFERENCES

1. Leung, F. C., Russel, S. M.; Nicoll, C. S. Relationship between bioassay and radioimmunoassay estimates of prolactin in rat serum. *Endocrinology* 1978; 103: 1619 - 28.
2. Martinat, N., Hall, E., Ravault, J. P., Dubois, M. P. Purification of rat prolactin: development of an homologous radioimmunoassay and comparison with the NIAMDD system. *Ann Biol Anim Bioch Biophys* 1979; 19: 171 - 48.
3. Beach, J. E., Miles, D. J., Lukes, Y. G., Vigersky, R. A. Microplate solid-phase radioimmunoassay for rat prolactin. *J Lab Clin Med* 1985; 105: 294 - 298.
4. Butcher, R. L., Collins, W. E., Fugo, N. W. Plasma concentration of LH, FSH, prolactin, progesterone and estradiol-17 $\beta$  throughout the 4-day estrous cycle of the rat. *Endocrinology* 1974; 94: 1704 - 8.
5. Barbieri, R. L., Todd, R. B., Morishita, H., Ryan, K. J., Fishman, J., Naftolin, F. Response of serum prolactin to catechol estrogen in the immature rat. *Fertil Steril* 1980; 34: 391 - 3.
6. Wong, C. C. Endogene und exogene Einflüsse auf die Variabilität der Hormonausschüttung bei der Ratte (Endogenous and exogenous influences on the variability of hormone release in the rat). Thesis, Hannover (Germany): Univ. of Hannover, 1981.
7. Campbell, G. A., Kurcz, M., Marshall, S., Moses, J. Effects of starvation in rats on serum levels of FSH, LH, TSH, growth hormone and prolactin: response to LH-releasing hormone and thyrotropin-releasing hormone. *Endocrinology* 1977; 100: 689 - 7.
8. Haggi, E., Aoki, A. Prolactin content in rat pituitary gland. RIA of prolactin after different extraction procedures. *Acta Endocrinol* 1981; 97: 338 - 42.
9. Reichel, J. Wirkungen gonadaler Steroide auf die adeno-hypophysären Thyreotropin-Releasing-Hormon-Rezeptoren, den Prolactinserumspiegel und die hormonelle Hypophysen-Schilddrüsen-Achse der Ratte (Effects of gonadal steroids on the pituitary TRH-receptors, the serum prolactin concentrations and the pituitary-thyroid axis in the rat) Thesis. Lübeck (Germany): University of Lübeck, 1990.
10. Moishige, W. K., Penn, G. J., Rothschild, I. Serum LH, prolactin and progesterone levels during pregnancy in the rat. *Endocrinology* 1973; 92: 1527 - 30.

### Symbols:

	Storage temperature		Manufacturer		Contains sufficient for <n> tests
	Expiry date		Batch code		
	Consult instructions for use		Content		
	Caution		Catalogue number		For research use only!