BIOCHEMISTRY OF SEMEN

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SEMEN

- Semen is a liquid or semigelatinous cellular suspension containing the male gamet or spermatozoa and secretion from the accesory organs of the male reproductive tract
- The fluid portion of this suspention, which is formed at ejaculation, is known as seminal plasma.

Biochemichal of semen

Semen consisted of :

solid -------- spermatozoa

fluid ---------- seminal plasma

Chemistry of spermatozoa

- Head
- Neck
- Tail

biochemichal constituents is different

- Head contains : -nucleus (DNP)
  -acrosome
  -acrosomalpolysacharid
  -enzyme (hyaluronidase, acrosin and corona petnetrating enzyme/CPE)

. Neck contains :- lipid (lipoprotein)
- cytochrom
- aerob and an aerobe enzyme

. Tail contains : plasmalogen (as a endogen energy)

BIOCHEMICHAL OF SEMINAL PLASMA

- Biochemichal constituent of seminal plasma :

1.Organic : cholin, citric acid, fructose, sorbitol, inositol and ergothionine

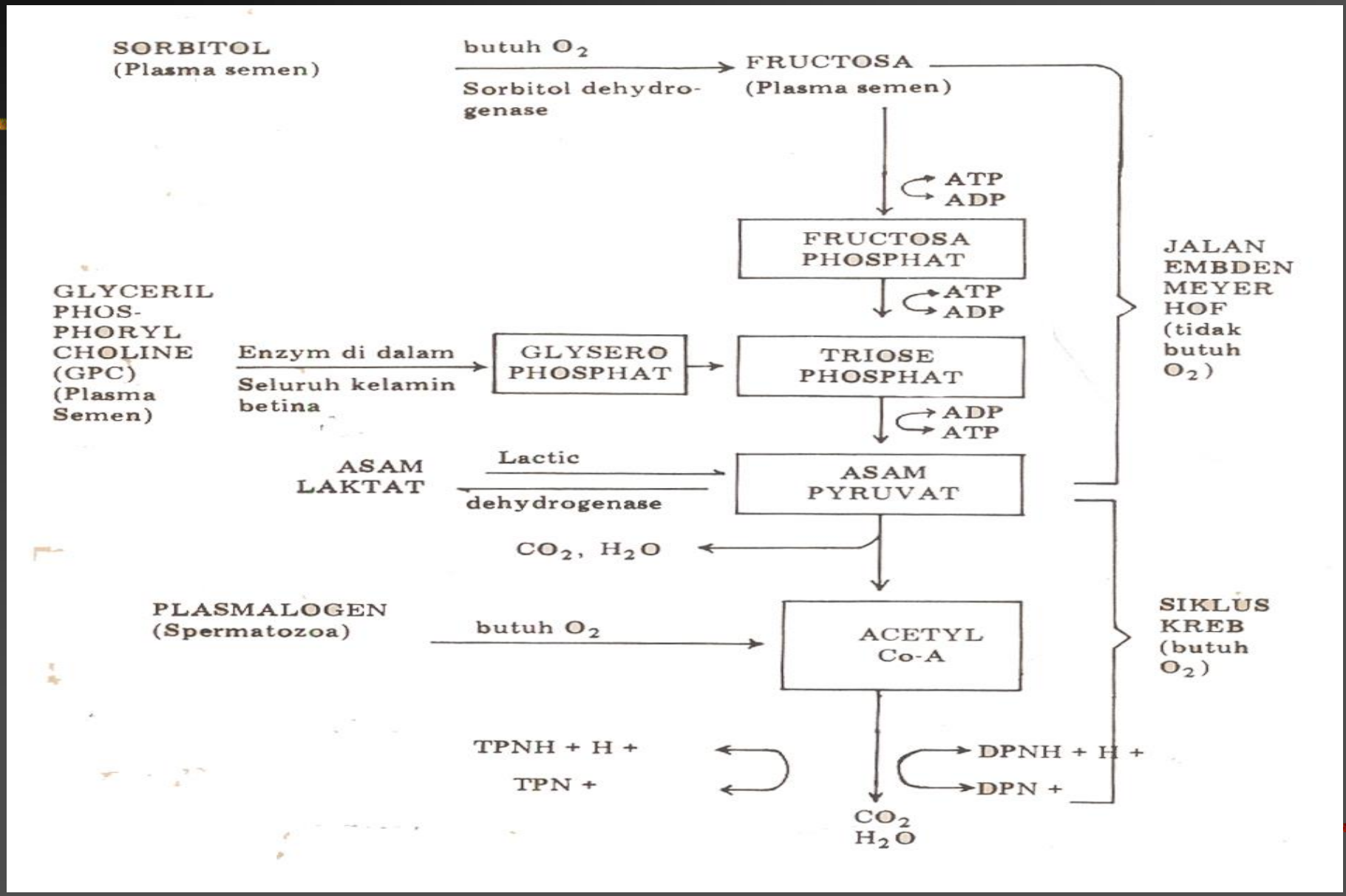
2. Inorganic : calium, calcium, carbonat, phosphat and weigth of metal

3. Hormone, peptides, amino acids and proteins

Cont

- Seminal plasma is composite secretion arising from a number of sources including the testes, epididymis and accessory glands of the male.
- Seminal plasma appears to be more important in natural mating where the ejaculate is deposited in the vagina.

SPERMATOZOA METABOLISM



STRUCTURE OF DUTIES

- Explain the character of seminal plasma on cattle !!
- Explain the spermatozoa metabolism !!
- Why the post ejaculated spermatozoa not experiance of capacitation and acrosome reaction. Please explaining in a short sentences !!