

Bovine Insulin

Insulin from Bovine Pancreas

Product#: **AK8213**

Product Description:

Bovine Insulin, a polypeptide hormone, is obtained from beef pancreas and purified from an ethanol/phosphoric acid extract. It is the principal hormone responsible for regulating the cellular uptake and storage of glucose. Bovine Insulin also plays an important role in metabolism of amino acids and fatty acids, while effectively inhibiting the degradation of glycogen protein and fat. Due to these characteristics, it is commonly used as a growth factor in many mammalian cell culture systems.

Manufacturing Highlights:

- ✓ Manufactured under USP 30 specifications
- ✓ Bulk quantities available (kg size)

Product Specifications:

- ✓ Appearance: fine, white powder (crystallized)
- ✓ Greater than 95% pure as determined with HPLC
- ✓ Endotoxin tested
- ✓ Mycoplasma tested
- ✓ Dissolves in dilute mineral acids
- ✓ Potency greater than 26.0 USP Insulin units/mg(dried basis)
- ✓ Less than 10 ppm of Proinsulin

Research Application:

- ✓ Bovine Insulin is typically used as a medium supplement for cell culture at a concentration of 1 to 10 ug/ml.

Recommendation of Use:

Bovine Insulin has low solubility at a neutral pH and is insoluble in water and ethanol. Therefore, it is recommended to reconstitute the product by dissolving it at 2mg/mL in 50mM HCl (final pH 2-3).

Storage Requirements:

For long term storage in powder form, store at -20°C. In liquid form, store in single-use aliquots at 2-8°C up to 12 months granted appropriate sterilization techniques are performed. Avoid repeated freeze-thaw cycles of Bovine Insulin and protect from light.

Related Products:

- Bovine Transferrin APO (Cat.# **AK8227**)
- Bovine Transferrin HOLO (Cat.# **AK8204**)
- rHu Insulin (Cat# **AK8211**)
- rHu Albumin (Cat # **AK8998**)
- Bovine Serum Albumin (Cat# **AK8245**)
- Bovine Fibronectin (Cat# **AK8350**)
- rHu Transferrin (Cat # **AK9028**)