

# Recombinant Swine EPO

**Cat. No.** EPO-104S    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Swine EPO was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Pig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Erythropoietin (EPO) is an essential hormone for red blood cell production. Without it, definitive erythropoiesis does not take place. Erythropoietin has its primary effect on red blood cell progenitors and precursors by promoting their survival through protecting these cells from apoptosis. It is the primary erythropoietic factor that cooperates with various other growth factors (e.g., IL-3, IL-6, glucocorticoids, and SCF) involved in the development of erythroid lineage from multipotent progenitors. Erythropoietin has a range of actions including vasoconstriction-dependent hypertension, stimulating angiogenesis, and inducing proliferation of smooth muscle fibers. |
| <b>Form</b>             | Lyophilized without carrier protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | Swine EPO has a predicted molecular weight of 18.6 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | APPRLICDSR VLERYILEAK EGENATMGCA ESCSFSENIT VPDTKVNFYA<br>WKRMEVQQQA MEVWQGLALL SEAILQGQAL LANSSQPSEA LQLHVDKAVS<br>GLRSLTSLLR ALGAQKEAIP LPDASPSSAT PLRTFAVDTL CKLFRNYSNF<br>LRGKLTLYTG EACRRRDR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| <b>Purity</b>         | >95% as visualized by SDS-PAGE analysis.                                                                                                                                                       |
| <b>Applications</b>   | The Swine EPO protein can be used in cell culture, as an EPO ELISA Standard, and as a Western Blot Control.                                                                                    |
| <b>Storage</b>        | Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles. |
| <b>Reconstitution</b> | Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.                                                                                                  |

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