

## *Certificate of Origin*

<b>Date</b>	12-June-2009
<b>Product Name</b>	Recombinant Mouse EGF
<b>Catalog Number</b>	PMG8041, PMG8043, PMG8044, PMG8045
<b>Lot Number</b>	Information applies to all lots produced.
<b>Manufacturing Information</b>	The methods and controls used in this facility for manufacturing, processing, packaging, and holding of our products are in accordance with ISO13485:2003 Quality Management System.
<b>Manufacturing Site</b>	Invitrogen, Camarillo, California, USA
<b>Raw Material Information</b>	Recombinant Mouse EGF is produced in E. coli and purified via sequential chromatography. The product contains no materials directly of animal origin. The product does utilize animal derived components in the manufacturing process.
<b>Animal Derived Components:</b>	The fermentation feed contains tryptone derived from bovine milk of US or Australia origin. The fermentation media is sterilized at 122.5°C for 45 minutes, 15 psi. EGF is purified by immobilized metal affinity chromatography (non-animal). The leader sequence is cleaved by thrombin derived from human plasma. The serum is certified to be negative for HBsAg and for Antibodies to HIV and HCV. The final purification step is by Reverse Phase Chromatography.

This document was prepared by:

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