

Certificate of Analysis

Product Name:	Ipilimumab
Cat. No.:	GC31951
Batch No.:	1
Chemical Name:	

PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.:	477202-00-9
Molecular Formula:	$C_{6742}H_{9972}N_{1732}O_{2004}S_{40}$
Molecular Weight:	145313.36

ANALYTICAL DATA

Appearance:	Colorless to light yellow (Solution)
Purity(SEC-HPLC):	99.88%
Concentration:	4.0 mg/mL
Potency:	1.395
Endotoxin Level:	<1 EU/mg
Sterility:	Sterilized via a 0.22 μm filter and packaged aseptically
Storage and	PBS, pH 7.2
Codon Optimization:	Yes
Expression System:	CHO stable cell line
Purification:	Protein was obtained from supernatant, followed by AC, CEX and SEC
Storage and Handling:	Store at -80°C. Aliquots should be stored at the same temperature after
	first use to avoid multiple freezethaws
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only. Tel: (626) 353-8530 Fax: (626) 353-8530 E-mail: tech@glpbio.com Address: 10292 Central Ave. #205, Montclair, CA, USA