

Certificate Of Analysis

Quality Control Testing and Research Application

COA Preparation Date: 15/06/2015

COA Revision Date: 15/06/2018

Product: **MOG (35-55) (mouse, rat)**
Cat. No.: NB-48-0630-50MG
Batch No.: 0328BP/08
Chemical Name: Myelin oligodendrocyte glycoprotein (35-55) (mouse, rat)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{118}H_{177}N_{35}O_{29}S$
Batch Molecular Weight: 2581.95
CAS No.:
Physical Appearance: White lyophilised solid
Melting Point:
Solubility: Soluble in water
Storage: Desiccate at -20° C
Batch Molecular Structure:

H-Met-Glu-Val-Gly-Trp-Tyr-Arg-
Ser- Pro-Phe-Ser-Arg-Val-Val-His-
Leu- Tyr-Arg-Asn-Gly-Lys-OH

Product Description: **Myelin Oligodendrocyte Glycoprotein (MOG) fragment that induces severe chronic experimental autoimmune encephalomyelitis in transgenic mice. MOG is found exclusively in the CNS, where it is localized on the surface of Myelin and Oligodendrocyte cytoplasmic membranes. It has been implicated as an important autoantigen in Multiple Sclerosis (MS).**

References: 1. Encinas et al. (1999) Nature Gen 21:158; 2. Hisahara (2000) EMBO J 19:341; 3. Ford and Evavold (2003) Immunology 171:1247; 4. Frausto et al. (2007) J Neuroimmunol 192:12

- CAUTION - Not fully tested. For Research use only. Not for human use. –

Neo Biotech

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NB-48-0630-50MG MOG (35-55) (mouse, rat)

1. ANALYTICAL DATA

HPLC:	corresponds to the reference		
MS:	corresponds to the reference		
Tests:	HPLC Assay: >99% (complies).		
Column:	4.6 *250mm, Welch CX-C18 5um		
Solvent A:	0.1% Trifluoroacetic in 100 % acetonitrile		
Solvent B:	0.1% Trifluoroacetic in 100% water		
Gradient:		A	B
	0.01min	20%	80%
	25.00min	45%	55%
	25.10min	100 %	0%
	30.0min		stop
Flow rate :	1.0ml/min		
Wavelength:	220nm		
Volume:	10ul		

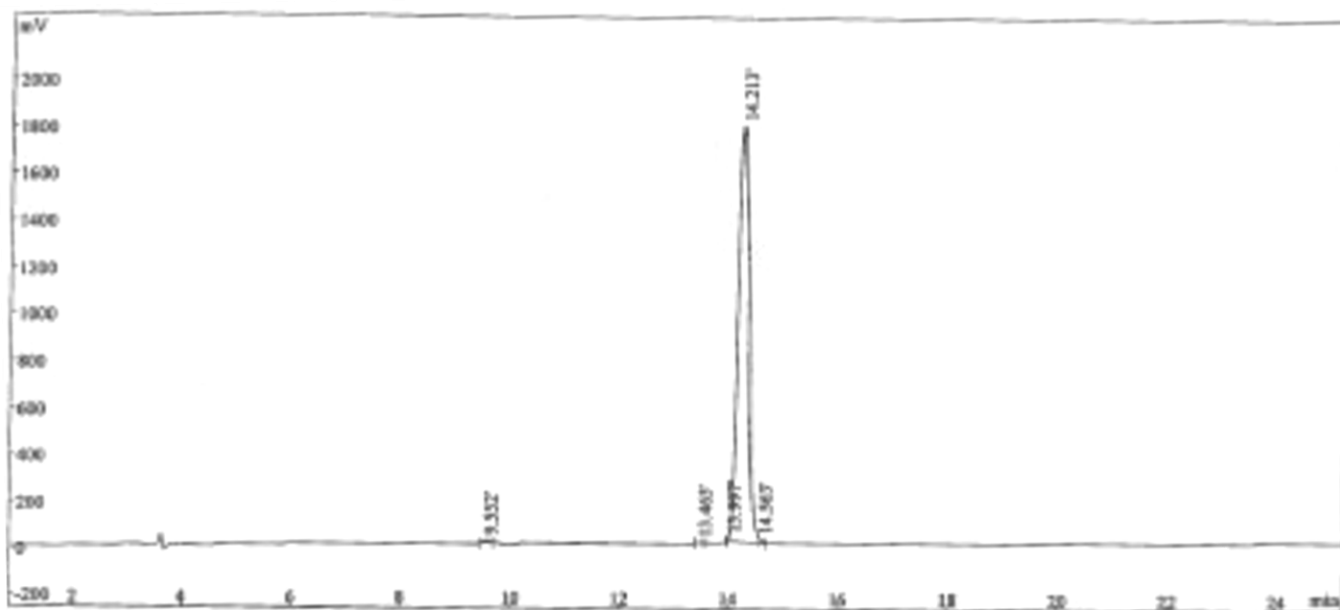
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Rank	Time	Conc.	Area.	Height
1	9.552	0.3697	79601	11714
2	13.465	0.06155	13253	2118
3	13.997	0.06351	11523	10815
4	14.213	99.32	21399094	1776026
5	14.563	0.1288	27740	12104
Total		100	21531211	1812777

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