



AGRO-BIO
The Proteomic &
Immune Response

Agro-Bio standard protocols

Version 2010/01

18

EN

2 allée de la Chavannerie
45240 La Ferté Saint Aubin
France
Tél. 33 (0)2 38 64 83 50
Fax. 33 (0)2 38 64 83 59
www.agro-bio.com

Agro-Bio has developed a time-optimized immunization protocol, yielding quality antibodies, needing low amounts of antigen. We recommend the use of several animals in parallel (except for the protocol goat) to follow the protocol of immunization in order to overcome the differences obtained due to the genetic variability between each animal.

INFORMATION ABOUT THE STANDARD PROTOCOLS:

Animal species	Number of animals by standard protocol	Duration of the standard protocol in days	Total quantity obtained
Rabbit	2	77	From 120 to 150 mL of antiserum
Goat	1	77	≈ 300 mL of antiserum
Guinea Pig	3	49	From 6 to 9 mL of antiserum
Mouse	5	35	From 300 to 500 µL of antiserum
Rat	3	35	From 2 to 3 mL of antiserum
Chicken	2	35	≈ 40 mL of IgY pre-purified in a concentration > to 4 mg / mL
Chicken	2	70	≈ 80 mL of IgY pre-purified in a concentration > to 4 mg / mL

NEEDS IN ANTIGEN FOR A STANDARD PROTOCOL:

IMMUNISATION (Necessary quantity for an animal)	Quantity minimum necessary (in proteins / coupled peptide carrier / bacteria or virus) for an animal within the framework of a standard protocol:		
	77 Days rabbit protocol: - 1,30 mg, - 5 à 10.10 ⁸ CFU or PFU.	Chicken: 35 Days protocol: - 750 µg, - 3.10 ⁸ CFU or PFU. 70 Days protocol: - 1 mg, - 4.10 ⁸ CFU or PFU.	77 Days goat protocol: - 2,6 mg, - 10 à 20.10 ⁸ CFU or PFU.
	35 Days rat protocol: - 900 µg, - 5.10 ⁸ CFU ou PFU.	35 Days mouse protocol: - 200 µg, - 3.10 ⁸ CFU ou PFU.	49 Days guinea pig protocol: - 1 mg, - 4.10 ⁷ CFU ou PFU.
ELISA	Standard need for 1 plate (control of 8 samples): - 30 µg of proteins, - 80 µg of free peptide, - 1 à 2.10 ⁹ CFU or PFU.		
PURIFICATION	Purification of the specific antibodies: 5 mg of antigen by column of affinity of 1 mL. <i>In the case of a volume importing to purify (> 150 mL for the same antigen), the use of bigger columns leads a more important need in antigen.</i>		

Agro-Bio is approved by the prefecture of Loir-et-Cher for experimentation on vertebrate animals.
Accreditation number: B 41-285-4

