

Augsburg, 31 July 2016

July 2017

New at ArminLabs!

Antibody differentiation between *Anaplasma phagocytophilum* and *Ehrlichia chaffeensis*

Dear Sir or Madam,

Additionally to the Ehrlichia/Anaplasma EliSpot for cellular diagnostics, we are from now on able to offer the antibody differentiation between *Anaplasma phagocytophilum*, the bacterial pathogen of Human Granulocytic Anaplasmosis (HGA), which was previously known as Human Granulocytic Ehrlichiosis (HGE), and *Ehrlichia chaffeensis*, the pathogen of Human Monocytic Ehrlichiosis (HME).

HME occurs predominantly in North America, whereas Anaplasmosis (HGA) is dominant in Europe. In European countries, *Anaplasma phagocytophilum* is detected in 1% to 45% of all ticks (primarily *Ixodes ricinus*).

Symptoms in percent of sick persons (according to Dumler JS. 2005):



Symptoms, results	HME (in %)	HE (in %)
Fever	97	93
Myalgia	57	77
Headaches	80	76
Malaise	82	94
Nausea	64	38
Vomiting	33	26
Diarrhoea	23	16
Cough	26	19
Arthralgia	41	46
Exanthema	31	6
Neck stiffness	3	21
Confusion	19	17
Leucopenia	62	49
Thrombocytopenia	71	71
Elevated SGPT and SGOT levels	83	71

Anaplasma phagocytophilum-IgG/IgM-antibodies or Ehrlichia chaffeensis-IgG/IgM-antibodies

Material: 0.5 ml serum

The costs for the *Anaplasma phagocytophilum*-IgG/IgM-antibodies are the same as for the *Ehrlichia chaffeensis*-IgG/IgM-antibodies and can be found on your Order Form.

Yours sincerely,

The ArminLabsTeam