

DISPERSION OF THE ELECTRICAL RESISTANCE OF BLOOD

Name:

Group:

Date:

1. Goal of the experiment:

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2. Results of measurements of electric resistance R and capacitance C of a blood sample as a function of current frequency f :

Frequency	$\log f$	Resistance R	Capacitance C
Hz		Ω	μF
$2 \cdot 10^2$	2.30		
$4 \cdot 10^2$	2.60		
$8 \cdot 10^2$	2.90		
$1 \cdot 10^3$	3.00		
$3 \cdot 10^3$	3.48		
$5 \cdot 10^3$	3.70		
$1 \cdot 10^4$	4.00		
ΔR_{10^4}		-	
$5 \cdot 10^4$	4.70		
$1 \cdot 10^5$	5.00		
$2 \cdot 10^5$	5.30		
$4 \cdot 10^5$	5.60		
$6 \cdot 10^5$	5.78		
$8 \cdot 10^5$	5.90		
$1 \cdot 10^6$	6.00		
ΔR_{10^6}		-	

Make a graph of the dependence $R = f(\log f)$

3. Value of the polarization coefficient:

$K \pm \Delta K = \dots\dots\dots$

