



## Refrigerated Microfuge ?



YOU NEED THE  
**MIKRO 22R**  
COMPACT,  
QUIET RUNNING  
MICROFUGE

- Up to 60 x 1.5 ml microtubes
- Max speed 18,000 rpm with corresponding RCF of 32,000 g
- Wide choice of other rotors for tubes up to 50 ml
- Powerful refrigeration unit will hold temperature even at high speeds for prolonged spins
- Refrigeration module at rear of unit saves lateral bench space
- Rapid acceleration and breaking rates for optimal throughput



**Hettich**  
CENTRIFUGES

Post card today for further details or call:  
01372 737102 or fax: 01372 729927

## Large Capacity Bench Centrifuge ?



YOU NEED THE  
**ROTINA 46**  
FOR BOTH DAILY  
LAB WORK AND  
SPECIAL  
APPLICATIONS

- Exceptionally quiet operation
- Available in both refrigerated and air-cooled versions
- Maximum capacity of 16 x 50 ml Falcon tubes
- Selection of high speed rotors available (up to 11,000 rpm with corresponding RCF of 13,800 g)
- Both microtitre plates and standard tubes can be centrifuged using the same rotor

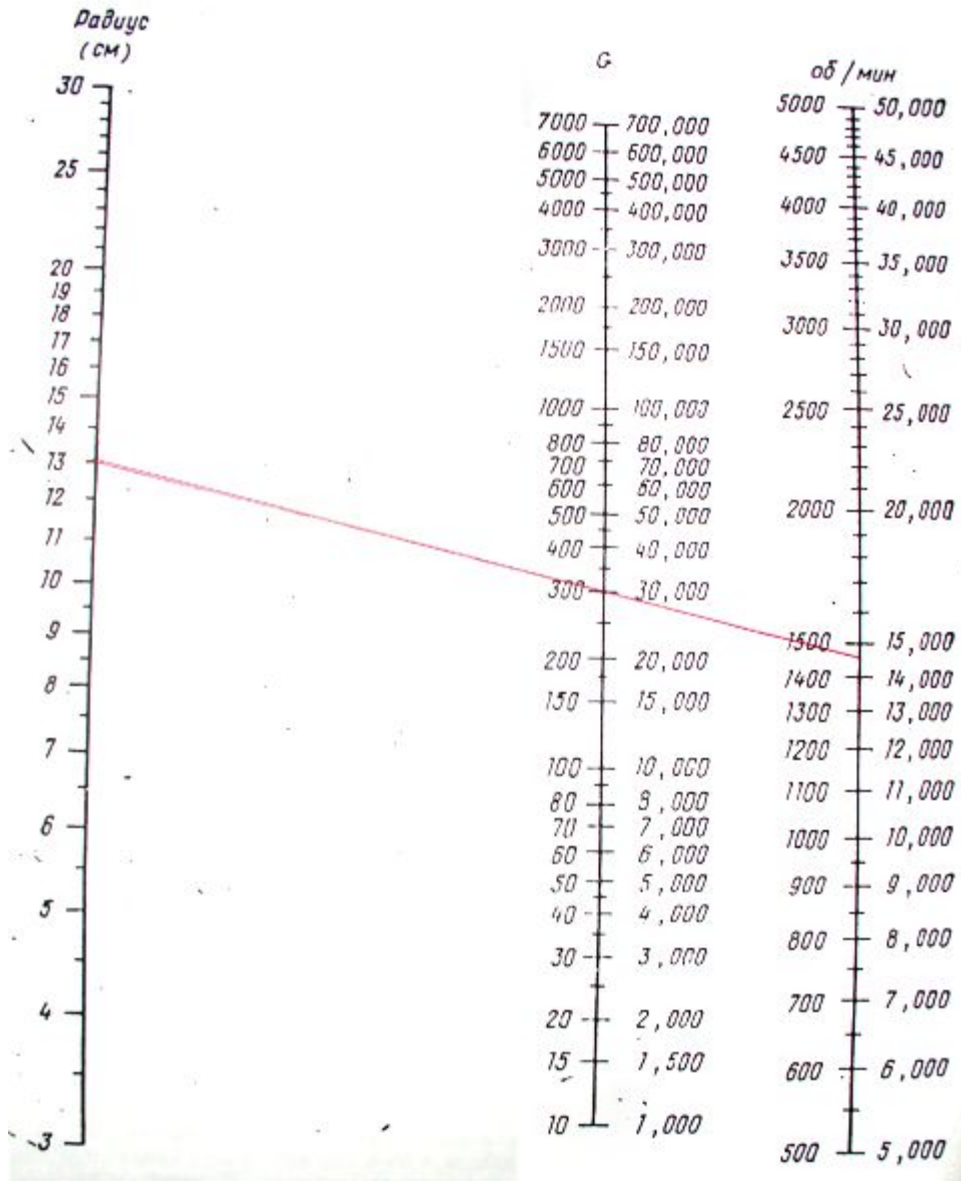


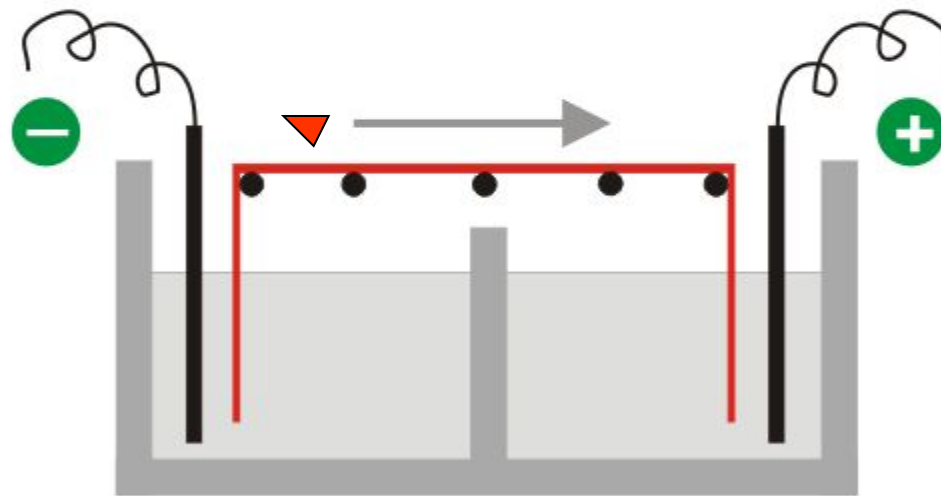
**Hettich**  
CENTRIFUGES

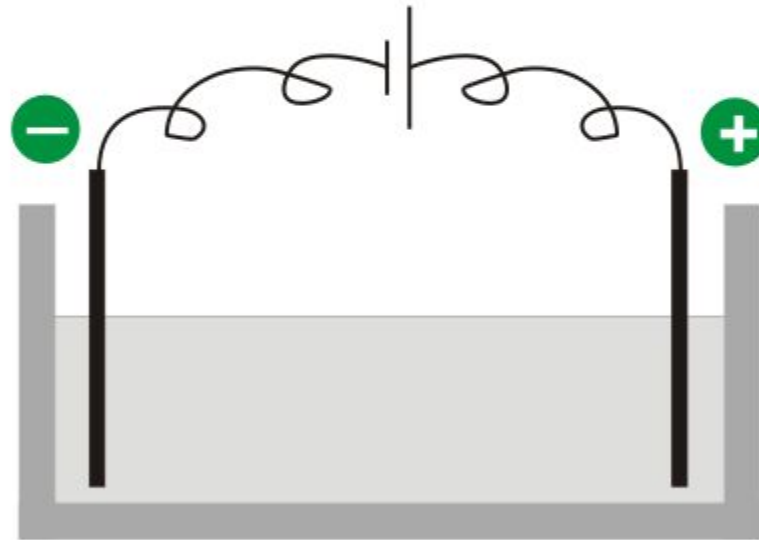
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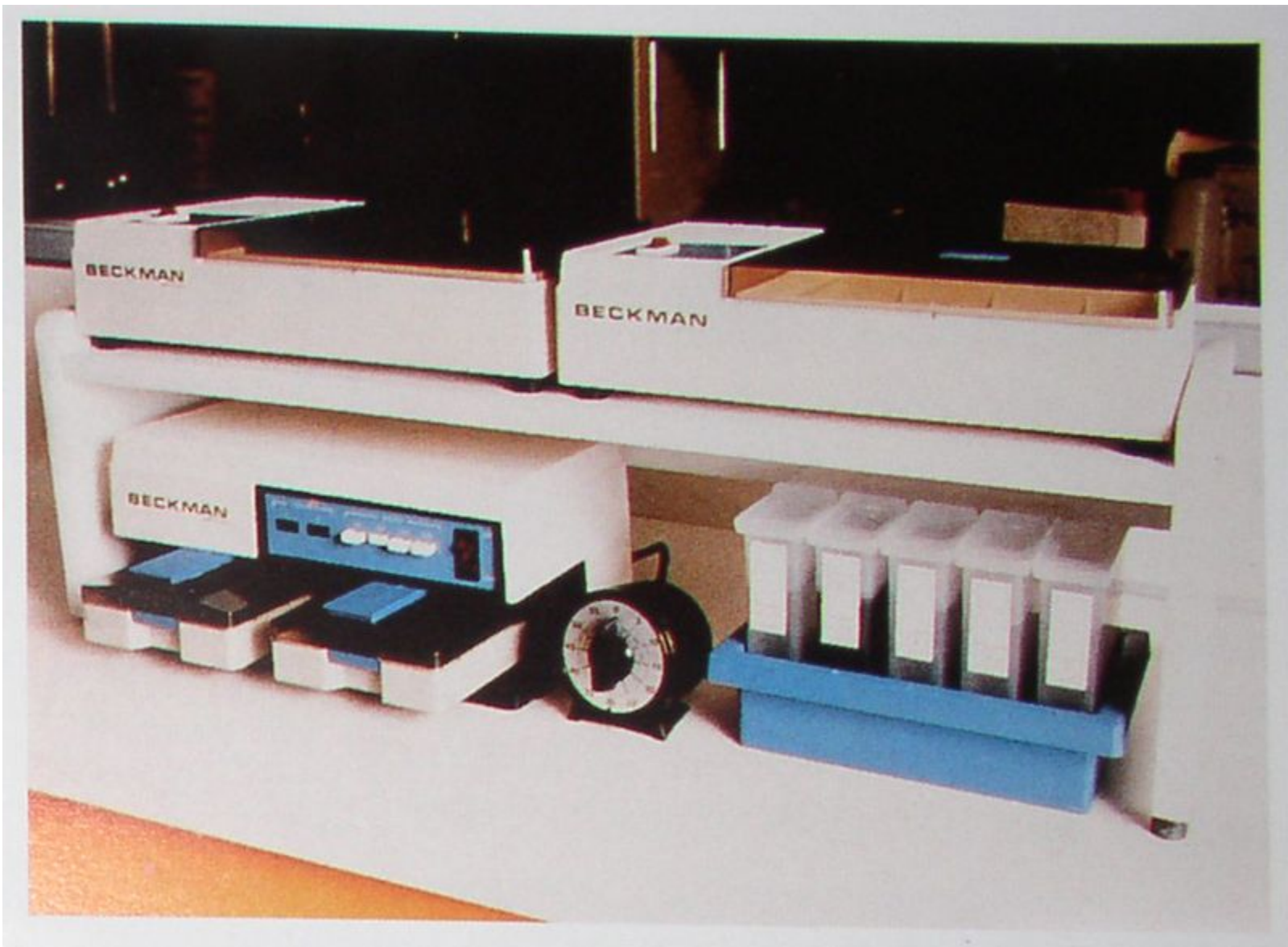
# *Centrifuge Tubes*











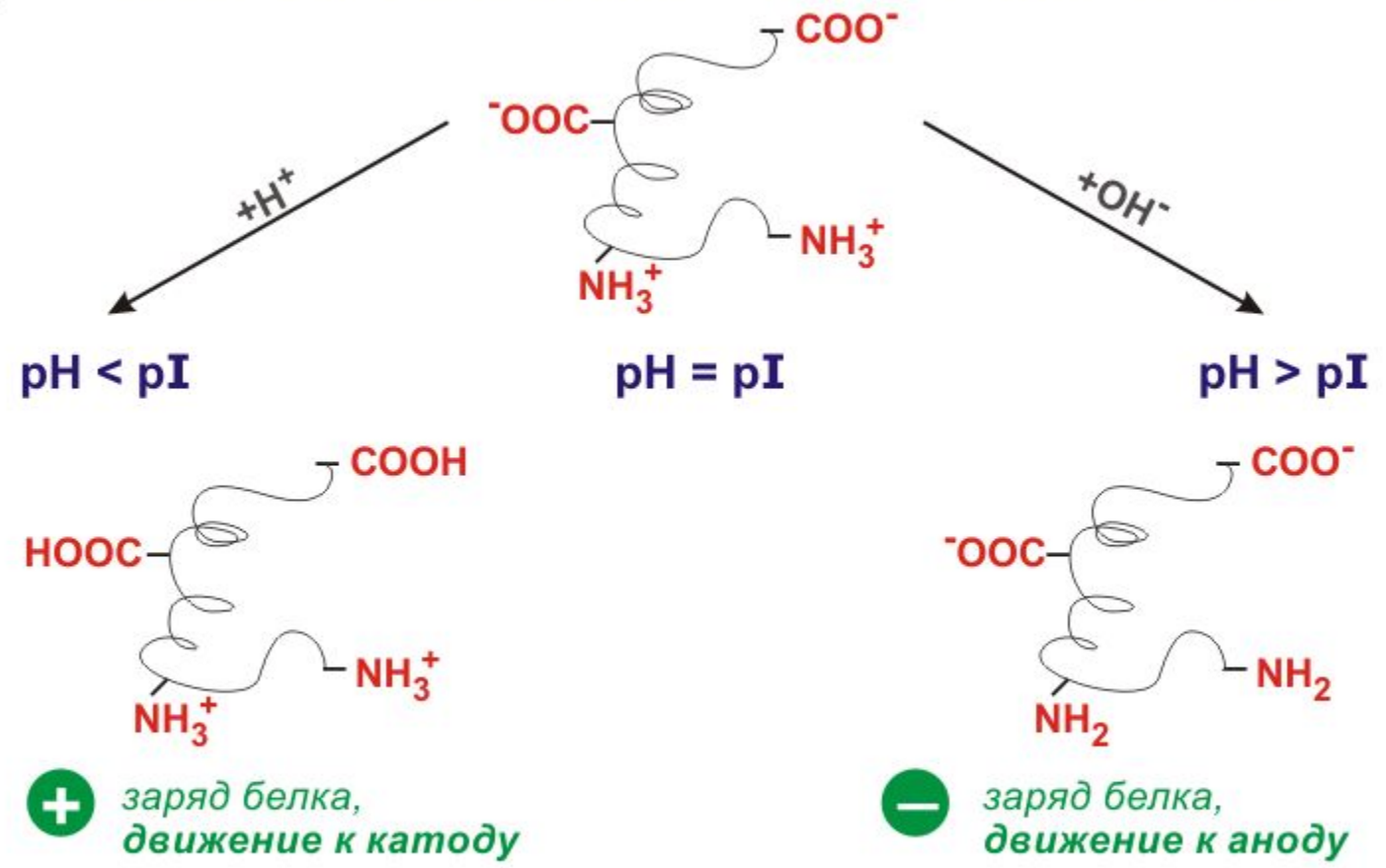
# Electrophoresis System







# Зависимость знака заряда белка от pH





$$I(a) = \frac{U(B)}{R(OM)}$$



$$\mu = \sum \frac{C_1 Z_1^2 + C_2 Z_2^2 + \dots + C_3 Z_3^2}{2}$$

$$\mu = 0,05 - 0,1 \text{ моль/л}$$



## Носители (поддерживающие среды)

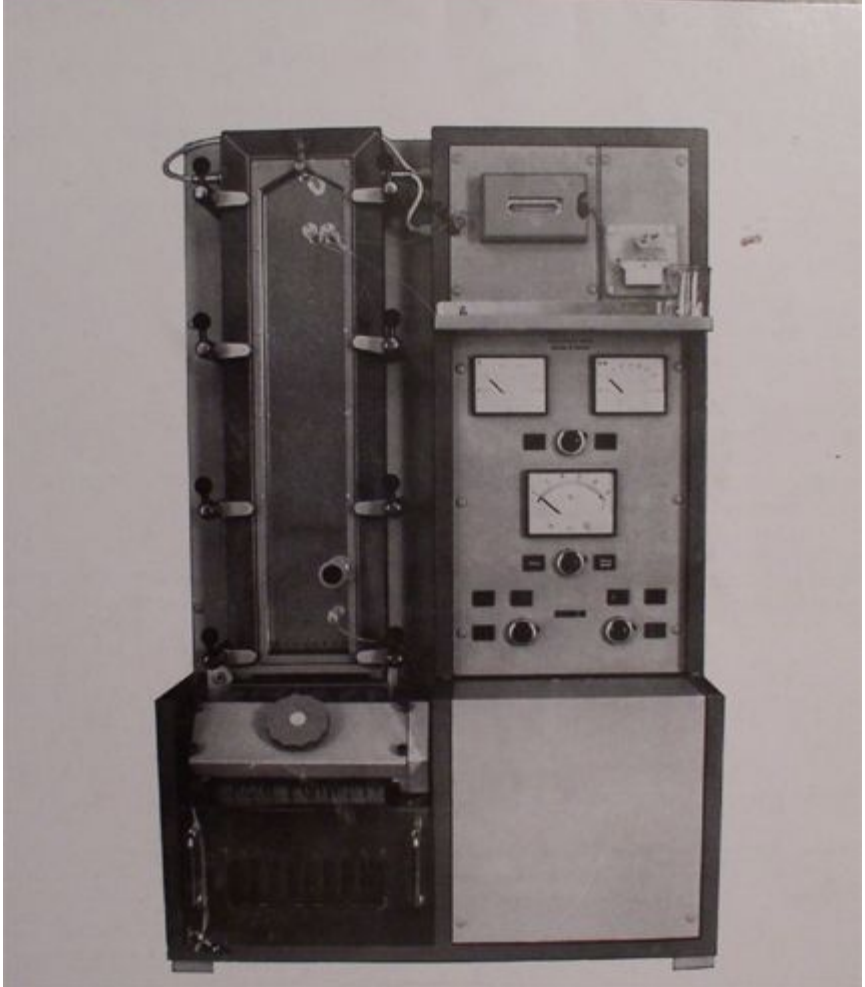
Хроматографическая бумага, ацетатцеллюлоза

Гранулы стекла, сефадекса (от G-10 до G-200), сефарозы

Тонкие слои (окиси Si, Al)

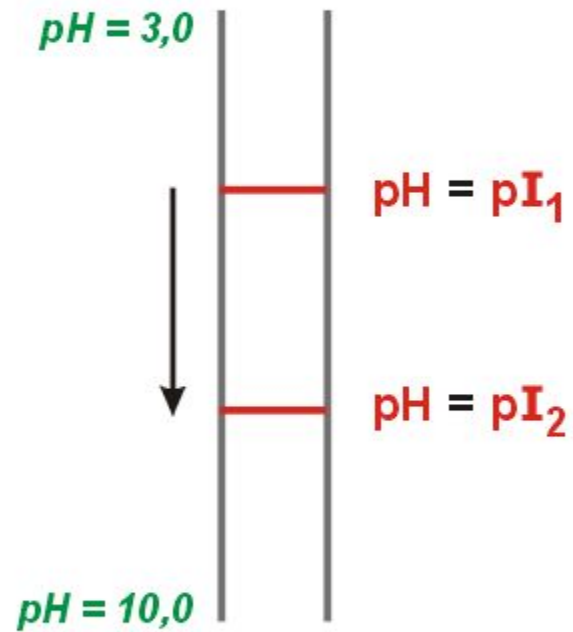
Гели  
Крахмальный  
Агар-агара  
Агарозы  
ПААГ

# Elpher VaP5



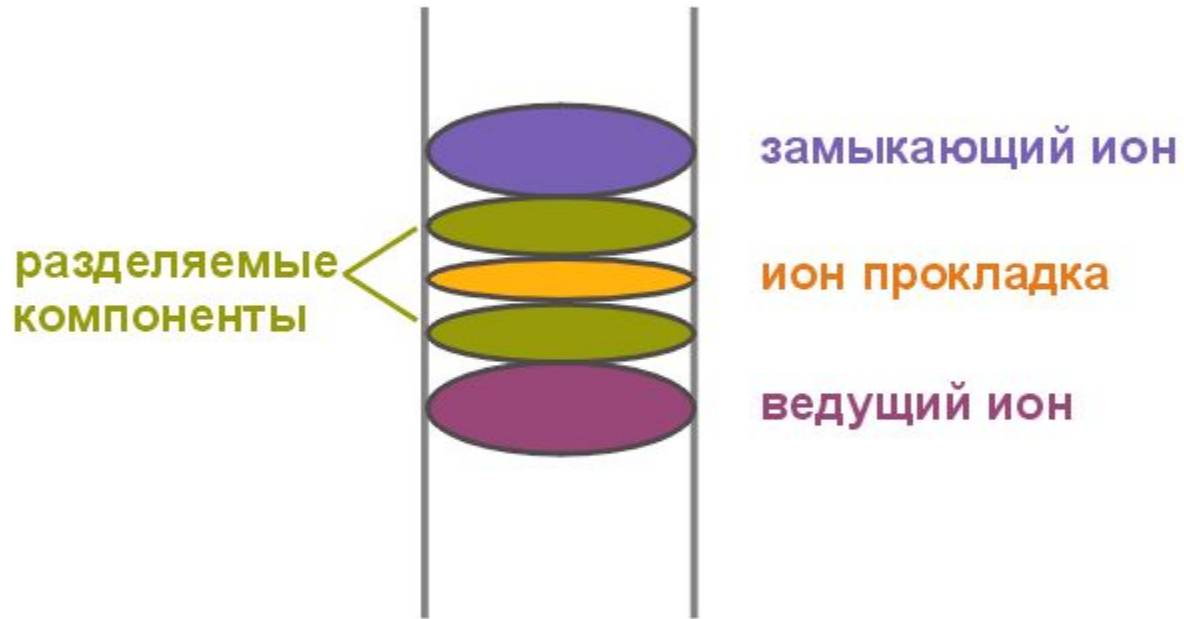


## Изоэлектрическое фокусирование





# Изотахорез









2004