

Description	Pooled normal rat serum	
Product code	NRaS	
Physical form	Delipidated, lyophilized, stable reference serum of several rat strains	
Preservative	No preservative added	
Intended use	<p>As a qualitative serum with an optimized protein content to study the normal protein composition of rat serum. To identify or quantitate a normal serum protein component using a variety of immunodiffusion techniques including immunoelectrophoresis, single and double radial immunodiffusion and electroimmunodiffusion. As a reference serum in nephelometry and other automated precipitation techniques. As a blocking agent or as a negative control in non-precipitating antibody-binding assays e.g. in serodiagnostic immunofluorescence and immunoenzyme tests.</p> <p>This normal reference serum does not contain assigned values for individual proteins but can be used as an internal relative standard for quantitative protein assays such as double radial immunodiffusion (Mancini, Fahey), ELISA, Western immunoblotting and electroimmunodiffusion (Laurell), expressing the results obtained with the serum sample under investigation as a percentage of the protein concentration in the normal reference serum. For a standard rat serum with assigned values for IgA, IgM and the subclasses of IgG see NOR-03.</p>	
Directions for use	<p>Normal serum protein reference sera are shipped lyophilized at ambient temperature. After arrival store at +4°C. Prolonged storage may be at -20°C. After opening the vial, the lyophilized content is reconstituted by adding 1 ml of sterile distilled water, mixed gently by inversion until complete dissolution is obtained. Allow to stand at ambient temperature for 5-10 minutes to reach equilibrium. Reconstituted serum may be stored frozen. Working dilutions may be prepared by adding the required amount of phosphate buffered saline (PBS), should not be refrozen and preferably used within 24 hours. Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon storage, this should be removed by centrifugation and will not affect the performance of the reference serum.</p>	
Packing	Vial with 1 ml lyophilized normal protein reference serum.	
Storage / shelf life	Lyophilized at +4°C	at least 10 years
	reconstituted at or below -20°C	3-5 years
	reconstituted at +4°C	7 days
Caution	<p>This normal protein reference serum should be handled only by qualified persons and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For <i>in vitro</i> research purposes only.</p>	

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