Urine Specific Gravity Lab Value

Urine specific gravity (USG or UG) is the measure of the density of the urine solute compared to free water. The normal value varies slightly from lab to lab but is generally 1.003-1.030. USG values vary based on hydration and renal function. Higher values indicate that the urine is more concentrated with solute. Solutes in the urine that increase urine specific gravity include glucose, proteins, white or red blood cells, crystals, and possible bacteria.



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1.003-1.030

Low Gravity 1.003 urination to High Gravity 1.030 urination

The normal urine specific gravity is slightly more dense than water at 1.003 to 1.030. Values higher than 1.010 usually begins to indicate slight dehydration or the presence of solutes such as glucose, proteins, white or red blood cells, crystals, and possible bacteria.

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