## Determination of urea concentration in BALF by colorimetric method

To determine the urea concentration, a commercially available kit (DIUR-500, BioAssay Systems) based colorimetric method was used in 96-well plates. This kit determines urea directly in biological samples without any pretreatment. For BALF, 50  $\mu$ L water (blank), 50  $\mu$ L 5 mg urea/dL (the 50 mg/dL standard diluted in water) and 50  $\mu$ L samples were deposited in duplicate into separate wells. Then, 200  $\mu$ L working reagent was added and mixed gently before incubating for 50 min at room temperature. The optical density (OD) at 450nm was then read using a LT-5000MS plate reader (Labtech, France). Urea concentration (mg/dL) of the sample is calculated as: [Urea] = [(OD<sub>Sample</sub> - OD<sub>blank</sub>)/(OD<sub>Standard</sub> - OD<sub>blank</sub>)] x n x [STD] (mg/dL). OD<sub>Sample</sub>, OD<sub>blank</sub> and OD<sub>Standard</sub> are OD values of sample, standard and water, respectively. n is the dilution factor. [STD] = 5 urea standard concentration (mg/dL). The dilution factor is calculated as: dilution factor = [concentration of urea in plasma (mg/dL)]/[concentration of urea in BALF (mg/dL)]. The concentration of urea in plasma we used was 50 mg/dL [1].

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