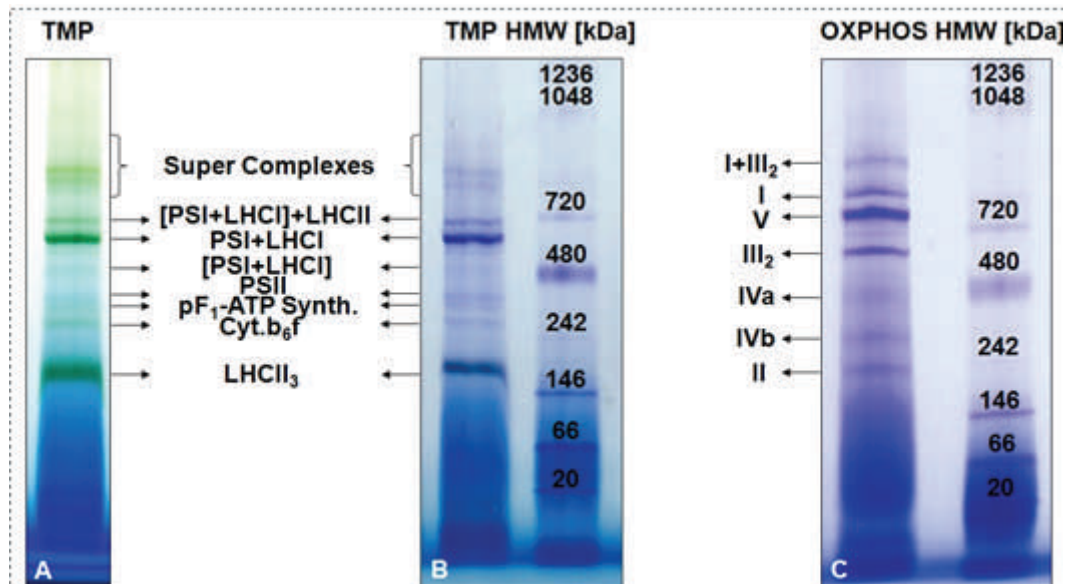


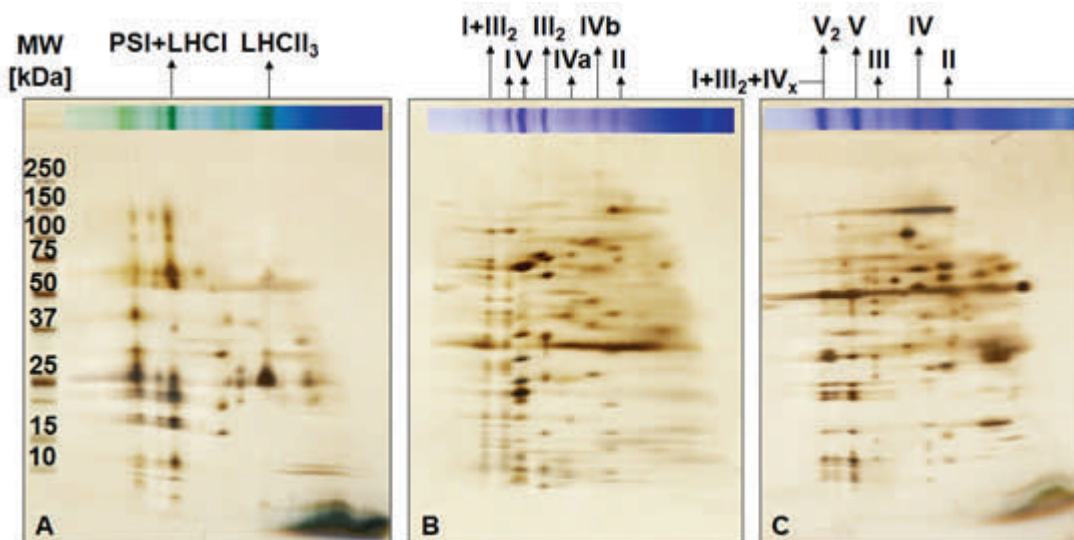
## Protein Complexes Analysis with the 2D BN / SDS-PAGE Kit

A simple to use 2D BN/SDS-PAGE kit generates high-resolution, reproducible and rapid (< 1 day) results. Robust, precast, plastic-backed gels are used for both the 1<sup>st</sup> and 2<sup>nd</sup> dimension. The 1<sup>st</sup> dimension (BN-PAGE) depends on a new amphoteric buffer and has been formatted as gel-strips that seamlessly integrate with the 2<sup>nd</sup> dimension SDS-PAGE. Due to the high resolution and the use of thin gels (0.65 mm) the kit allows much smaller sample sizes to be applied than traditional, home-made BN-gels. Furthermore, there is no requirement for cathode buffer exchange during the run because of the presence of Coomassie dye in the gel - as the separation proceeds the blue color in the gel progressively clears.



**1<sup>st</sup> dimension:** BN-PAGE separation of A, B, thylakoid membrane protein (TMP) complexes and C, super complexes from *A. thaliana* chloroplasts (5% Digitonin) and respiratory chain complexes (OXPHOS) from *A. thaliana* mitochondria (5% Digitonin).

From Kristina Hartmann et al. Poster at HUPO Congress in Sydney 2010



**2<sup>nd</sup> dimension: BN-PAGE:** SDS-PAGE results in the separation of potential protein complex subunits from **A**, thylakoid membrane protein complexes from *A. thaliana*; **B**, OXPHOS complexes from *A. thaliana*; **C**, OXPHOS complexes from rat liver mitoplasts. Separation time: 3 h and 20 min, 15°C

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