ADECA is a recently patented and validated method [1-3] allowing to characterize and control the amino density on a wide variety of materials (shape, porous, non porous, polystyren (PS), polypropylene, COC) using a wide variety of coating protocols (covalent, absorbed).

ADECA main advantages and characteristics are described in CNES-ADECA patent sheet below.

ADECA principle is based on three main steps (Staining, Washing, Elution & quantification).

ADECA performances depends on the Coomassie Brilliant Blue (CBB, CAS number: 6104-58-1) purity. Two different CBB were compared on various aminated materials (Fig 1, 2, 3)
- CBB 95% from Sigma-Aldrich, www.sigmaaldrich.com used as reference as described in [2,3]
- CBB from Colcom, www.colcom.eu

Results under ADECA method are identical using CBB from Aldrich and Colcom:

![Fig 1 Alkyl-amine PS microplates](image)
![Fig 2 DGL (G2) covalent grafting on PS](image)
![Fig 3 DGL (G2) covalent grafting on porous material](image)

References