

ABSTRACT OF THE DISCLOSURE

METHOD OF PRODUCING CARBOXYLIC ACIDS

5 The method comprises (1) a carboxylic acid salt providing step comprising permitting a strain of microorganism or a preparation derived from the microorganism to act upon a nitrile to thereby (a) provide at least the corresponding amide which is then
10 hydrolyzed in the presence of a base to provide a salt of the corresponding carboxylic acid or (b) provide a salt of the corresponding carboxylic acid and (2) an electrodialysis step comprising subjecting the carboxylic acid salt provided in the step (1) to
15 electrodialysis to provide the corresponding carboxylic acid and base. Carboxylic acids can be produced without formation of ammonium hydrogen sulfate and other byproducts. The microorganism includes microorganisms of the genera Pantoea and Gordona. The ammonia formed
20 in the step (1) can be reused as a nitrogen source in a nitrile production line.

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