

CLAIMS

1. A graphene nanomaterial selected from graphene nanofibers, wherein the graphene nanomaterial has a particle size distribution having a $dn(90)$ of 0.60 μm or smaller in number of particle and a $dv(90)$ of 80.00 μm or smaller in volume particle, as measured by laser diffraction particle analyzer.
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2. The graphene nanomaterial according to claim 1, wherein its BET specific surface area is comprised between 100 and 500 m^2/g .
3. The graphene nanomaterial as defined in claim 2, wherein its BET specific surface area is between 300-350 m^2/g .
- 10 4. The graphene nanomaterial as defined in claim 1, wherein its pore volume is between 0.35-0.40 cm^3/g .
5. The graphene nanomaterial as defined in claim 1 wherein its BET specific surface area is between 300-350 m^2/g and its pore volume is between 0.35-0.40 cm^3/g .
- 15 6. The graphene nanomaterial according to any of claims 1 to 5, wherein the impurities in the nanomaterial are less than 0.01% by weight.
7. A graphene nanomaterial according to any of claims 1 to 6, for use as a medicament.
8. A graphene nanomaterial according to any of claims 1 to 6, for use in the
20 treatment of wounds, scars, eczema, skin burns, skin ulcers or other skin lesions.
9. A graphene nanomaterial according to any of claims 1 to 6, for use according to claim 8 in the treatment of skin lesions produced by psoriasis, diabetes, cancer, infections, acne or decreased circulation of blood.
- 25 10. A pharmaceutical composition comprising a graphene nanomaterial product as defined in any of claims 1 to 6 and a pharmaceutically acceptable excipient.

11. A pharmaceutical composition according to claim 10 suitable for topical use.
12. A pharmaceutical composition according to claim 11 wherein it is in a form selected from a cream, an ointment, a microemulsion, a gel, an emulsion-gel, a paste, a foam, a tincture, a patch, a bandage, a membrane, a matrix or a transdermal delivery systems.
13. A pharmaceutical composition according to claim 12 wherein it is a hydrogel or a cream.
14. A method to prepare the product as defined in any of claims 1-6 from raw graphene nanofibers, comprising the steps of:
- a) Purifying the raw graphene material, preferably using a strong acid, to remove any metal or impurity present in the graphene raw material,
 - b) Reducing the particle size of the purified graphene nanomaterial, preferably through an exfoliation process, to a particle size distribution having a $dn(90)$ of 0.60 μm or smaller in number of particle and a $dv(90)$ of 80.00 μm or smaller in volume particle, as measured by laser diffraction particle analyzer,
 - c) Optionally subjecting the obtained product to a depyrogenization process.