CLAIMS

1. Method for removing a contaminant from a gas contaminated with one or more of the following contaminants: protein, glycoprotein, lipoprotein, RNA, DNA, oligonucleotide, oligosaccharide, polysaccharide, lipo poly(saccharides), lipids different from lipoprotein and lipo poly(saccharides) phenolic compound, characterized in that the contaminated gas is contacted with at least one filter medium or a filter element comprising the at least one filter medium or with a filter arrangement comprising the filter element, the at least one filter medium comprising at least one cross-linked functional polymer immobilized on a support.

2. Method for removing a contaminant from a gas contaminated with one or more of the following contaminants, respectively: protein, glycoprotein, lipoprotein, RNA, DNA, oligonucleotide, oligosaccharide, polysaccharide, lipo poly(saccharide), other lipid, fat, phenolic compound, metal, metal cations, and degradation products of plants, animal tissue, algae, microorganisms, characterized in that the contaminated gas is contacted with at least one filter medium or a filter element comprising the at least one filter medium or with a filter arrangement comprising the filter element, the at least one filter medium comprising at least one cross-linked functional polymer immobilized on a support, wherein the at least one filter medium is manufactured in a wet-laid process.

3. Method of claim 1 or 2, wherein said one or more contaminants are comprised in an aerosol or in dust.

4. Method of any one of the preceding claims, wherein said at least one cross-linked functional polymer comprises at least one basic residue or at least one acidic residue.

5. Method of claim 4, wherein the at least one basic group comprises at least one primary or secondary amino group and the at least one acidic residue comprises at least one carboxylic group.

6. Method of any the previous claims, wherein the contaminated gas is contacted first with the at least one filter medium comprising at least one cross-linked functional polymer immobilized on a solid support, and subsequently with a filter medium not comprising a cross-linked functional polymer immobilized on a support; or
wherein the contaminated gas is contacted first with a filter medium not comprising a cross-linked functional polymer immobilized on a support, and subsequently with the at least one filter medium comprising at least one cross-linked functional polymer immobilized on a solid support.

7. Method of claim 6, wherein the at least one functional polymer of the filter medium comprises at least one basic residue or at least one acidic residue.

8. Method of any one of claims 1 to 5, wherein the contaminated gas is contacted first with a combination of at least two filter media comprising a cross-linked functional polymer immobilized on a solid support, respectively, wherein the cross-linked functional polymers are the same or are different, and subsequently with a filter medium not comprising a cross-linked functional polymer immobilized on a support; or
wherein the contaminated gas is contacted first with a filter medium not comprising a cross-linked functional polymer immobilized on a support, and subsequently with a combination of at least two filter media comprising a cross-linked functional polymer immobilized on a solid support, respectively, wherein the cross-linked functional polymers are the same or are different.

9. Method of claim 8, wherein one of the functional polymers comprise at least one basic residue, and the other functional polymer comprises at least one acidic residue.