**Table 2:** Influence of the main process parameters in nano spray drying (🡅/🡇 strong, 🠕/🠗 weak increasing/decreasing influence, - minimal or no influence) (adapted from [19]).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Process**  **parameter** | **Outlet temperature** | **Droplet**  **size** | **Particle**  **size** | **Feed rate** | **Moisture content** | **Yield** | **Stability** |
| Drying gas flow rate 🠕 | 🡅 | ̶ | ̶ | ̶ | 🡇 | ̶ | ̶ |
| Drying gas humidity 🠕 | 🠕 | ̶ | ̶ | ̶ | 🡅 | 🠗 | ̶ |
| Inlet temperature 🠕 | 🡅 | ̶ | 🠕 | ̶ | 🠗 | 🠕 | 🡇 |
| Spray mesh size 🠕 | 🠗 | 🡅 | 🡅 | 🡅 | ̶ | ̶ | 🠕 |
| Spray rate intensity 🠕 | 🡇 | 🠕 | 🠕 | 🡅 | 🠕 | ̶ | 🡇 |
| Circulation pump rate 🠕 | ̶ | 🠕 | 🠕 | 🠕 | ̶ | ̶ | 🠕 |
| Solid concentration 🠕 | 🠕 | ̶ | 🡅 | 🡇 | 🠗 | 🠕 | ̶ |
| Surfactant/stabilizer 🠕 | ̶ | 🠗 | 🠗 | 🠕 | ̶ | ̶ | 🡅 |
| Solvent instead of water | 🡅 | 🠗 | 🠗 | 🠕 | 🡇 | 🠕 | ̶ |