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(57) Abstract :
The present invention provides a Kyllinga nemoralis based starch powder useful as pharmaceutical excipients, wherein the starch is extracted from Kyllinga nemoralis rhizomes; the moisture content of carboxymethylated starch derivatives ranges between 12.30±0.02% and 16.83±0.04%; ash content ranges between 1.07±0.02% to 4.09±0.01%; pH ranges between 6.0 to 6.6; solubility power ranges between 19.23±0.18% to 48.10±0.21% with the rise in temperature; the swelling power ranges between 0.42±0.01 to 16.95±0.11 with the rise in temperature; the angle of repose ranges between 0.34º to 0.36º; wherein the bulk density ranges between 0.30g/mL to 0.40g/mL; wherein the tapped density ranges between 0.40g/mL to 0.45g/mL; wherein the carr's index ranges between 14% to 20%; wherein the hausner ratio ranges between 1 to 1.5; wherein the true density ranges between 1g/mL to 2g/mL; wherein the porosity between 75% to 77%. The present invention provides a process for preparing starch from Kyllinga nemoralis. The present invention further provides a tablet formulation using Kyllinga nemoralis starch as excipients. The Kyllinga nemoralis starch of present invention is particularly useful as binder and disintegrants in tablet formulation.

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