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Report on the composition of optimal mixtures of Spent Mushroom Substrate, Wheat Straw and underutilised feedstock from Western European regions

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PUBLISHABLE SUMMARY

A number of underutilised feedstocks from the four main European regions identified at proposal stage (Western Europe, Northern Europe, Eastern Europe and Southern Europe) have been collected and analysed by BIOrescue partners. More specifically for this report, barley straw and oat straw samples from the Western region (Ireland and the United Kingdom) have been collected and analysed. Unsurprisingly, the analysis has revealed quite similar compositions between these other straws and wheat straws. Taking this data into account and along with data collected in other activities, an optimal feedstock mixture of Spent Mushroom Substrate, Wheat Straw and other underutilised feedstock has been proposed for a mushroom-farm-based biorefinery located in the Western region of Europe.