INTERNATIONAL DAIRY FEDERATION

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VOTE ON NEW WORK ITEM PROPOSAL

18/03 – A

Milk products – determination of ash

Date of circulation :	12 February 2018
Closing date for voting :	19 March 2018

IDF National Committees of full IDF member countries are requested to vote.

Notes from IDF Head Office

The full background and explanation on the proposed New Work Item and the results of evaluation of the proposal by the IDF Science Programme Coordination Committee are included.

IDF National Committees of full member countries are requested to reply to this survey within the deadline specified above.

IDF National Committees that have no interest in the subject matter but at the same time do not want to block adoption of this new work item that is important for other National Committees should indicate their wish to abstain from voting.

IDF National Committees of Associate IDF member countries that may wish to express an interest in active participation are requested to send this form to the IDF Head Office within the deadline specified above.

IDF New Work Item Proposal

NWI title: **Milk products – determination of ash**

Proposer: **Richard Johnson (NZ), supported by SCAMC**

Date: 25 October 2017

Description of the work and why is it important to the dairy sector?
The proposal is development of a new International Standard encompassing a broad range of dried milk products which will simplify procedures for laboratories by testing to a harmonized temperature and constant weight criteria. The scope will include milk powder, whey powder, whey protein concentrate, infant formula, milk permeate powder, milk protein concentrate, casein and caseinate. Consideration will also be given to cover liquid milk and liquid whey. CCMMP/CCMAS has identified a need for a method for the determination of ash for dairy permeate powders. A review of current standards indicates that only casein and caseinate have International Standards for determination of ash (ISO 5545|IDF 90 and ISO 5544|IDF 89). Some of the products specified and associated incineration temperatures are detailed below: • AOAC 930.30 Ash of Dried Milk ≤ 550°C • NMKL 173 Ash in foods 550°C • NEN 6810 ash in powdered milk and infant formula 500 – 550°C • BS 1743:1968 Determination of ash in dried milk 550°C • NZTM3; 4.2 Ash 550°C milk powder, 600°C whey protein concentrate • ISO 5545|IDF 90 Ash for rennet casein and caseinate 825°C • ISO 5544|IDF 89 Fixed ash for casein 825°C • GB 5009.4 Ash in foods 550°C At temperatures as high as 825°C there is significant risk of loss of more volatile elements such as phosphorus. This has been demonstrated by comparison of rennet casein tested according to both ISO 5545 and 5544. Incorporating casein and caseinates within a harmonized standard at 550°C will remove the risk and also the need to 'fix' phosphorous in caseins. The project will also seek to combine the ability to test via both simple low cost equipment and modern automated apparatus such as thermogravimetric analysers that are already commonly used in high throughput laboratories.
Why should IDF work on this item? This should include the benefit that IDF can deliver, and the consequences if IDF would not undertake this work.
The lack of a clearly defined method for the analysis of ash in a broad range of milk products could result in difficulties in trade between countries which apply differing methods that may exhibit a bias in results. CCMMP/CCMAS has identified the need for an ash method to support a standard of identity requirement for dairy permeate powders.
How does this work align with IDF's Strategy (which pillar, which objective, etc)?
Pillar: Analytical Standards

Objective: IDF contributes to the development of science-based globally harmonized standards, guidelines, codes of practice and related methodologies, to continually improve regulatory environments for the dairy sector	
Who outside of IDF is working on this item? (IGOs, key influencers, other dairy organizations like GDP, other public and private sector organizations…)	
No other organization working on this item has been identified.	
What, Who, When, How ?	
Proposed Deliverable(s)	ISO|IDF International Standard
Specify intended use of the end product	International Standard
Target audience	Laboratories that have the task to monitor the quality/composition of milk products
Proposed body to be responsible	Standing Committee on Analytical Methods of Composition, Action Team C43
Proposed leader	Richard Johnson (NZ). Proposed members: R Brändli (NO), H Cruijsen (NL), P Fornero (AR), L Monti (IT), M Povolo (IT),
Other IDF Bodies to be involved	None. SCSIL to be kept informed
Have interdependencies with other projects been identified?	No
Proposed Completion Date	2020
Requirements regarding IDF Head Office staff support	Prepare proposal, sending out NWI proposal and collate responses, adding to SC agenda and send relevant working documents. Coordinate with AT leader and ISO secretariat. Publish on the website. Estimated staff time: 7 days
Funding requirements, if any, and how these will be covered – define internal vs. external sources .	Collaborative study for the sample types included within the draft scope will be funded by the project leader (NZ)
Further requirements or details	A preliminary draft is provided.
Communication	
What is the objective of the communication?	Create awareness when the standard is available and promote its use
Specify the main messages to get across with the end product	Harmonization of methodology and simplification for users
Who are the organizations and/or individuals targeted in communication efforts?	Regulators and users
Specific deadline to be met (events, meetings, other publications)	None

IDF Science and Programme Coordination Committee's evaluation of the proposal

	Evaluation	Yes/No or recommendation
1	Does the proposed work item meet the IDF mission and strategy ?	Yes
2	In which IDF Strategy focus area does this item fit?	Standards
3	Are there sufficient resources available in IDF?	Yes
4	Has the communications planning been sufficiently outlined?	Yes
5	At this time, is this a priority item?	No
6	What approval category should apply for the final end product? a) IDF National Committees b) Science and Programme Coordination Committee or c) Standing Committee / Task Force	a) IDF National Committees (and ISO member bodies)
7	Science and Programme Coordination Committee's recommendation for adoption of the new work item by IDF	Endorse